

Draganesti Str. 30, Slatina, jud. OLT, Romania 230119 Tel: +40 (249) 436862, 434640, 434641 Fax: +40 (249) 434330, 437288

E-mail: office.slatina@tmk-artrom.eu www.tmk-artrom.eu J 28/9/1991; VAT No. RO 1510210/1992 Subscribed and Paid Share Capital: 291.587.538,34 lei

INSPECTION CERTIFICATE - EN 10204: 2004 / 3.1

| No : I 69<br>Date: 03.                                                                          |                                                              |                                                        | Sigla<br>Mani                                              |                                           | icii:<br>urer's r                                              | nark:                                              | @                                                    |                                              |                              | ient nr<br>der No.                                                   |                                                             |                             |                |                              | PL: 260                            | 00            |
|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------|-------------------------------------------|----------------------------------------------------------------|----------------------------------------------------|------------------------------------------------------|----------------------------------------------|------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------|----------------|------------------------------|------------------------------------|---------------|
| Specifica<br>EN10210<br>EN 10216                                                                | tii / Spe<br>-1&2:06<br>5-2:13/ E                            | / EN 10<br>EN 1021                                     | on: PED<br>216-3:1<br>6-1:13/                              | 97/2<br>3/ AI<br>ISO                      | 3/EC+<br>D 2000W<br>3183:12                                    | 4+                                                 | Otel / S                                             | siune/Dir<br>Steel: S2<br>L2                 | mension<br>75J2H/<br>245 PSL | s: 57.0 :<br>P275Ni                                                  | x 4 x<br>L1 T                                               | x 6 000<br>FC1/ P:          | 265G           | н тс                         | 1/ P265T                           |               |
| Descriptio<br>LENGTH                                                                            | (m), SMI                                                     | S, heat                                                | no., lot,                                                  | el pip<br>mill in                         | es; marki<br>Ispector n                                        | ng by pai<br>o. 5, tech                            | nting at o<br>nical con                              | one end: n<br>trol sign                      | nanufact                     | urer's m                                                             | ark,                                                        | standa                      | rd, ste        | el gra                       | de, dimen                          | sion,         |
| Nr. Sar<br>Cantita                                                                              | ja / Hea<br>atea livr                                        |                                                        |                                                            | lelive                                    | red                                                            |                                                    | ti / Pcs.                                            | L                                            |                              | <b>length -</b><br>66.0                                              | - (m                                                        | )                           | Gre            |                              | / Weight                           | – Kg          |
|                                                                                                 |                                                              |                                                        | Co                                                         | mpoz                                      | itia chin                                                      |                                                    | · · · · · · · · · · · · · · · · · · ·                | l / Ladle                                    |                              | WANTE STATE                                                          | ysis                                                        | [%]                         |                |                              | 1572                               |               |
| Heat no.                                                                                        | C                                                            | Mn                                                     | S                                                          | P                                         | Si                                                             | Ni                                                 | Cr                                                   | Mo                                           | Cu                           | Al                                                                   | N                                                           | b                           | Ti             | N                            | V                                  | CF            |
| 10490                                                                                           | 0.16                                                         | 1.12                                                   | .001                                                       | .01                                       | 4 0.25                                                         | 0.07                                               | 0.04                                                 | 0.01                                         | 0.20                         | .026                                                                 | .00                                                         | 01 .0                       | 024            | .009                         | .020                               | 0.37          |
|                                                                                                 |                                                              | 9                                                      | Cr+Cu-                                                     |                                           |                                                                | 100                                                |                                                      | V=0.021                                      | 520 000                      |                                                                      |                                                             | Γi=0.04                     | 15             |                              |                                    |               |
|                                                                                                 |                                                              |                                                        | _                                                          | _                                         | zitia chir                                                     |                                                    |                                                      | _                                            | _                            | cal Anal                                                             | lyse                                                        |                             |                |                              |                                    |               |
| Heat no.                                                                                        | C                                                            | Mn                                                     | S                                                          | _                                         | P<br>0.016                                                     | Si<br>0.25                                         | Ni                                                   | 0.04                                         | Mo                           | Cu                                                                   | 1                                                           | Al                          | _              | Nb                           | Ti                                 | V             |
| 10490<br>10490                                                                                  | 0.15<br>0.16                                                 | 1.12<br>1.12                                           | 53943.444                                                  | 200                                       | 0.02<br>0.02                                                   | (0)4,95,050                                        | 65.5                                                 | 0.028                                        | 5.0                          | .003                                                                 | 0.026<br>0.026                                              | 0.02                        |                |                              |                                    |               |
|                                                                                                 |                                                              |                                                        |                                                            |                                           |                                                                | operties                                           |                                                      |                                              |                              |                                                                      |                                                             |                             |                |                              |                                    |               |
| INC                                                                                             | ERCAR                                                        | Fas                                                    | Tip ep<br>sie – lon                                        | ruve<br>gitud                             | NE / TEN<br>ta / Test<br>inal / Stri<br>nsion (m               | Specime<br>p–longiti                               | n<br>udinal                                          | N ISO 68                                     | 92-1)                        |                                                                      | <b>Rpo</b> ,<br>√mn                                         | 100                         | Rt0,5<br>I/mm² | 5 53016                      | Rm<br>/mm²                         | <b>A</b><br>% |
|                                                                                                 |                                                              |                                                        | Section                                                    | ne/S                                      | ection (                                                       | mm²): 45                                           | 5.42                                                 |                                              |                              |                                                                      | 388 391                                                     |                             |                | y.                           | 509                                | 36            |
|                                                                                                 |                                                              | L                                                      |                                                            |                                           | gth - (Lo                                                      |                                                    |                                                      |                                              |                              |                                                                      |                                                             | 5 6                         |                |                              |                                    |               |
| Drift exp                                                                                       | gire dorn<br>anding tes<br>O 8493)                           |                                                        | Test apla<br>Flattenin<br>EN ISO                           | g test                                    | 3                                                              | Charpy                                             | V - Notch                                            | crestatura<br>(EN ISO 1<br>1 2.5 x 10        | 48-1)                        |                                                                      |                                                             |                             | Ring           | actiune<br>tensile<br>ISO 84 | test                               |               |
| C                                                                                               | K                                                            |                                                        | OK                                                         |                                           |                                                                | 34 ( 30                                            | 6; 31; 34                                            | ) J (-10                                     | O C)                         |                                                                      |                                                             |                             |                | -                            |                                    |               |
| Hydraulic<br>Heat treati                                                                        |                                                              |                                                        | 0 PSI for                                                  | ) 5 se                                    | c: OK                                                          |                                                    | Н                                                    | lelting pro<br>ardness B<br>ardness H        | HN: 153                      | -156-15                                                              | 3–15                                                        | 6                           |                |                              | 5156                               |               |
| Visual insp<br>The manuf<br>(certificate<br>(certificate<br>18001:07 (<br>"TEVILE (<br>" NO WEL | acturer of<br>no. 6007<br>no.60071<br>certificate<br>CERTIFI | pipes is<br>159 issue<br>57 issue<br>no.6007<br>CATE N | certified<br>ed by 201<br>d by 201<br>7158 issu<br>U AU FO | by LF<br>5-08-<br>5-08-<br>ed by<br>OST R | RQA in acc<br>10, valid u<br>16, valid u<br>2015-08-<br>EMANIA | antil 2018<br>ntil 2018-<br>12, valid u<br>TE PRIN | with: ISC<br>3-08-10), I<br>-08-10), C<br>until 2018 | ) 9001:08<br>ISO 1400:<br>DHSAS<br>3-08-10). | nativites.                   | 2                                                                    | TN                                                          | 0036-<br>MK-ART<br>30,23011 | CPR-N<br>FROM  | M-008-<br>S.A. D<br>ATINA    | 2007<br>Draganesti<br>,OLT,ROM     | IANIA         |
| Sef servi<br>QC & LA<br>Dipl. Eng                                                               | ciu CTO<br>ABORA<br>3. Silviu                                | C Labor                                                | atoare<br>S CHI                                            |                                           |                                                                |                                                    |                                                      |                                              |                              |                                                                      |                                                             | S2                          |                | / 1.013                      |                                    | mposit        |
| INSPECTO<br>MILL INS<br>Eng. Con                                                                | OR CTC<br>PECTOR<br>Istantin                                 | Lupu                                                   |                                                            |                                           | nit dem TÜ                                                     | ly of the                                          | (02/08)                                              |                                              |                              | Tolera<br>Elonga<br>Tensile<br>Yield s<br>Impact<br>Weldal<br>Durabi | nces:<br>ation:<br>e streat<br>treng<br>t streat<br>bility: | ngth:<br>yth:<br>ngth:      | ,e17e4         | expre<br>in the              | essed as indi<br>DoP<br>mance dete |               |

Issued in agreement with TÜV SÜD (02/98)



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TMK-ARTROM S.A.

INSPECTION CERTIFICATE - EN 10204: 2004 / 3.1

No: I 4376 Sigla fabricii: Comanda client nr.: 4501890774 PL: 0783 Date: 31.05.2022 Manufacturer's mark: Customer Order No.: 4501890774

Specificatii/Specification: EN 10216-2:13/ ASTM A106:19/ISO 3183:19/ PED 2014/68/EU+ AD 2000W4/ Spec. TMK rev. 9/15.10.2020

Dimensiune /Dimensions: 76.1 x 4 x 12 000+150/-0 mm

Otel / Steel: P235GH TC1/P265GH TC1 /

Gr. B/L245 PSL1

Descriere: Tevi din otel fara sudura laminate la cald, neprotejate, sanfrenate la ambele capete: marcare prin sablonare la un capat: sigla fabricii, standard, otel, dimensiune, 7.11 Kg/m, TEST PRESSURE 17.2 MPa, SMLS, nr. sarja, lot, LENGTH(m), inspector CTC nr. 5; marcare prin poansonare la ambele capete: sigla fabricii, otel, S, nr. sarja,

Description: Hot rolled seamless steel pipes, unprotected, with bevelled ends; marking by painting at one end: manufacturer's mark, standard, steel grade, dimension, 7.11 Kg/m, TEST PRESSURE 17.2 MPa, SMLS, heat no., lot, LENGTH(m), mill inspector no. 5, technical control sign; marking at both ends: manufacturer's mark, steel grade, S, heat no.,

| Nr. Sarja / Heat No. : R58868          | Otel produs si lan | ninat in Romania/Steel melt a | nd rolled in ROMANIA  |
|----------------------------------------|--------------------|-------------------------------|-----------------------|
| Cantitatea livrata/ Quantity delivered | Bucati / Pcs.      | Lungime/Length - m            | Greutate / Weight- Kg |
|                                        | 7                  | 85.0                          | 626                   |

Compozitia chimica pe otel lichid / Ladle Chemical Analysis [%]

| Heat no. | C    | Mn   | S       | P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Si      | Ni     | Cr      | Mo      | Cu       | Al        | Nb    | Ti    | V     | В     |
|----------|------|------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------|---------|---------|----------|-----------|-------|-------|-------|-------|
| R58868   | 0.12 | 0.52 | 0.002   | 0.010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.23    | 0.10   | 0.06    | 0.02    | 0.25     | 0.020     | 0.001 | 0.001 | 0.001 | .0006 |
|          |      | (    | Cr+Cu+l |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        | √b+V=0. |         |          | -V+Ti=0   |       |       |       |       |
|          |      |      | Compo   | zitia chi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | mica pe | produs | /Produ  | ct Chem | ical Ana | alysis [% | ]     |       |       |       |
| Heat no. | C    | Mn   | S       | P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Si      | Ni     | Cr      | Mo      | Cu       | Al        | Nb    | Ti    | V     | В     |
| T- #     |      |      |         | The state of the s |         |        |         |         |          |           |       |       |       | -     |

0.53 | 0.001 | 0.013 | 0.23 0.10 0.06 0.02 0.27 0.022 | 0.002 | 0.001 | 0.001 | .0006 R58868 0.13 0.54 0.002 0.012 0.06 0.022 0.001 0.001 0.001 .0006

Caracteristici mecanice / Mechanical Properties

|                                                               | - at room tem                                       | 6892-1/ 2. ASTM A370) sperature longitudinal / Strip-longitudinal                               | <b>Rp0,2</b><br>N/mm² | Rto,5<br>N/mm²    | Rm<br>N/mm²                                     | <b>A</b><br>% |
|---------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------|-------------------|-------------------------------------------------|---------------|
| Dimensiune /                                                  | Dimension (mm): 1                                   | . 15.25 x 4.25 / 2. 19.30 x 4.25                                                                | 1. 358                | ( <del>2</del> .0 | 465                                             | 37            |
| Se                                                            | ectiune / Section (mn                               | n²): 1. 65.3 / 2. 83.01                                                                         | ] _                   |                   |                                                 |               |
| Lung                                                          | gime / Length - (Lo)                                | ( mm): 1.45/2.50.8                                                                              | 2                     | 356               | 470                                             | 38            |
| Test largire pe dorn<br>Drift expanding test<br>(EN ISO 8493) | Test aplatizare<br>Flattening test<br>(EN ISO 8492) | Test Charpy - crestatura V<br>Charpy V – Notch (EN ISO 148-1 )<br>KV/Longitudinal 2.5 x 10 [mm] | Char                  |                   | crestatura V<br>(EN ISO 148-1<br>d 10 x 10 [mm] |               |
| OK                                                            | OK                                                  | 31 (27; 31; 34) J (-10 <sup>0</sup> C)                                                          | 123 (1                | 08; 124; 13       | 6) J (-10°                                      | (C)           |

Hydraulic test pressure (ASTM A530): 17.2 MPa for 5 sec: OK Hardness HRB: 76–77 Hardness HRC max 22 (acc to NACE MR0175/ISO 15156) Heat treatment: normalized during hot rolling process Melting process: electric arc furnace, fully killed NACE MR0103/ISO 17945 Grain size ASTM E 112: 9.0

Hot yield at  $300^{\circ}$ C: 287 MPa(strip longitudinal 5.25 x 4.25 = 22.33 mm<sup>2</sup>); Hot yield at 343°C: 270 MPa(strip longitudinal  $5.35 \times 4.10 = 21.96 \text{ mm}^2$ );

Hot yield at 538°C: 185 MPa(strip longitudinal 5.65 x 4.20 = 23.75 mm<sup>2</sup>)

Inspectia vizuala si dimensionala: OK / Visual inspection and dimensional check : OK

Fabrica producatoare de tevi este certificata conform ISO 9001:2015, ISO 14001:2015 si ISO 45001:2018 The manufacturer of pipes is certified in acc. with ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018

The material "not contain intentional additions of elements such as lead, selenium, or sulphur to improve machinability"

"TEVILE CERTIFICATE NU AU FOST REMANIATE PRIN SUDURA"

"NO WELD REPAIR ON HEREBY CERTIFIED TUBES

Chief of QC & Testing of the Metallurgical Tubes Products Dipl. Eng. Silviu Barbulescu

MILL INSPECTOR Eng. Constantin Lupu

'Issued in agreement with TÜV SÜD Industrie Service GmbH (02/98)' "QS approved acc. to PED, Annex I, Para. 4.3 by Notified Body 0036"

"(Certification no. DGR-0036-QS-W 62/2002/MUC)"

This MTC is digitally signed and sealed by TMK -ARTROM S.A. IT system. The document is valid without handwritten signatures.



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Subscribed and Paid Share Capital: 291.587.538,34 lei

#### INSPECTION CERTIFICATE - EN 10204: 2004 / 3.1

| No: I 4<br>Date: 3                                                             | 4341<br>31.05.202                                                                                                     | .2                                                                              | Mai                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | nufactur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | er's mar           | k: (                  | 0         | Custo    | mer                            | Order                                                                                                                                                   | No.: 16                                                                           | 1                                                                               | PL: 07                                                                                                                          | 90            |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------|-----------|----------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------|
|                                                                                |                                                                                                                       | : NIMF                                                                          | A-CON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 4 SRL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                    |                       |           |          |                                |                                                                                                                                                         |                                                                                   |                                                                                 |                                                                                                                                 |               |
| PED 2                                                                          |                                                                                                                       | EU + EI<br>3/ EN 10                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | N10210             | -2:19/                | 1,550     |          |                                |                                                                                                                                                         |                                                                                   |                                                                                 | )/-0 mm<br>P265TF                                                                                                               | Veges         |
|                                                                                |                                                                                                                       |                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    | th bevell<br>t no, LO |           |          |                                |                                                                                                                                                         |                                                                                   |                                                                                 |                                                                                                                                 | one end:      |
| Heat N                                                                         | No.: R5                                                                                                               | 8462                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |                       | Stee      | l melt : | and r                          | olled in                                                                                                                                                | ROMA                                                                              | NIA                                                                             |                                                                                                                                 |               |
| Qu                                                                             | antity de                                                                                                             | ivered                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Pcs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                    |                       |           | ngth - n | n                              |                                                                                                                                                         | 8                                                                                 | Weight                                                                          |                                                                                                                                 |               |
|                                                                                |                                                                                                                       |                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    | CI ·                  |           | 44.00    | 01.1                           |                                                                                                                                                         |                                                                                   | 385                                                                             | 0                                                                                                                               |               |
| С                                                                              | Mn                                                                                                                    | S                                                                               | P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Si                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Ni                 | Chemica<br>Cr         | II Ana    | _        | %]<br>Cu                       | Al                                                                                                                                                      | Nb                                                                                | Ti                                                                              | V                                                                                                                               | CE            |
| 0.19                                                                           | 1.22                                                                                                                  | 0.003                                                                           | 0.010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.09               | 0.06                  | 0.0       |          | 18                             | 0.025                                                                                                                                                   | 0.001                                                                             | 0.001                                                                           | 0.002                                                                                                                           | 0.430         |
| 0.19                                                                           | 1.22                                                                                                                  | 0.003                                                                           | 0.010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1902750            | chanical              |           |          | 10                             | 0.023                                                                                                                                                   | 0.001                                                                             | 0.001                                                                           | 0.002                                                                                                                           | 0.430         |
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THIS IS FOR CERTIFY THAT THE MATERIAL HEREIN DESCRIBED HAS BEEN MANUFACTURED WITH THE ORDERED SPECIFICATION AND THAT INFORMATION IS CORRECT, THEY MEET THE SPECIFICATION'S REQUIREMENTS AND ARE RECORDS IN OUR COMPANY DOCUMENTS.



Draganesti Str. 30, Slatina, jud. OLT, Romania 230119 Tel: +40 (249) 436862, 434640, 434641 Fax: +40 (249) 434330, 437288

E-mail: office.slatina@tmk-artrom.eu www.tmk-artrom.eu EUID: ROONRC.J28/9/1991; J28/9/31.01.1991 VAT No. RO 1510210/1992

Subscribed and Paid Share Capital: 291.587.538,34 lei

#### INSPECTION CERTIFICATE - EN 10204: 2004 / 3.1

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2015 and I<br>LD REPA |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | FRTIFIE    | D TURES               | 2                         |        |        | 0         | TMK              | -ART  | 0036- CP<br>ROM S.A. |             |        |             | No.30.  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |                       | lements su                | ich a  | is lea | ad,       |                  |       | 9, SLATIN            |             |        |             |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | n, or sulpl           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |                       |                           |        |        | 100000    |                  |       | No. 6-5E/            | 22<br>CDD 1 | 0 10   | . 22        |         |
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| Dipl. F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Eng. Silv             | iu Barb      | ulescu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                       |                           |        |        |           |                  |       |                      |             |        |             |         |
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| MILL IN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | SPECTOR               |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |                       |                           |        |        |           |                  |       | crete struct         |             | iciai  | es or in co | mposite |
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| TWO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PATTEON S.A.          | <u>.</u>     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |                       |                           |        |        |           | longat<br>ensile |       | oth:                 |             |        |             |         |
| C41-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (B)<br>SLATINA        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |                       |                           |        |        | 100       | ield st          |       |                      | exp         | ores   | sed as ind  | icated  |
| This MT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | C is digital          | lly signed o | ınd sealed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | by TMK -   | ARTROM .              | S.A. IT syste             | em.    |        |           | npact<br>eldab   |       | gth:                 | in          | the I  | DoP         |         |
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THIS IS FOR CERTIFY THAT THE MATERIAL HEREIN DESCRIBED HAS BEEN MANUFACTURED WITH THE ORDERED SPECIFICATION AND THAT INFORMATION IS CORRECT, THEY MEET THE SPECIFICATION'S REQUIREMENTS AND ARE RECORDS IN OUR COMPANY DOCUMENTS.



Draganesti Str. 30, Siatina, jud. OLT, Romania 230119 Tel: +40 (249) 436862, 434640, 434641 Fex: +40 (249) 434330, 437288 E-mail: office.slatina@tmk-artrom.eu www.tmk-artrom.eu EUID: ROONRC.J28/9/1991; J28/9/31.01.1991 VAT No. RO 1510210/1992 Subscribed and Paid Share Capital: 291.587.538,34 lei

INSPECTION CERTIFICATE - EN 10204: 2004 / 3.1

No: 17602 Manufacturer's mark: Customer Order No.: PL:2433 Date: 31.10.2020 099 CUSTOMER- NIMFA-COM SRL Specification: Dimensions: 133.0 x 5.0 x 12 000 to 12 250 mm API 5L 46th Ed./ Steel: Gr. B PSL1/ EN 10216-2:13/ ASTM A106:19/ ISO 3183:19 P235GH TC1/ P265GH TC1/ Gr. B/L245 PSL1 Description: Seamless steel pipes, unprotected; marking by painting at one end: TMK-ARTROM, standard, dimension, steel grade, LENGTH(m), SMLS, heat no., lot, mill inspector no. 5, technical control sign // standard, steel grade, **TEST PRESSURE 17.2 MPa** Heat No.: 54159 Quantity delivered Length - m Weight-Kg 51 619.63 9782 Ladle Chemical Analysis [% Heat no. C Mn S Ni Cr Mo Cu Nb Ti R 54159 0.12 0.52 0.003 0.015 0.21 0.09 0.09 0.02 0.23 0.026 0.001 0.001 0.002 .0002 Cr+Cu+Mo+Ni=0.43 Nb+V=0.003 Nb+V+Ti=0.004 Product Chemical Analysis [%] Heat no. C Mn S Si Ni Cr Mo Cu Al Nb Ti B 54159 0.12 0.52 0.003 0.015 0.22 0.08 0.10 0.02 0.22 0.027 0.001 0.001 0.002 .0002 54159 0.12 0.52 0.002 0.014 0.21 0.08 0.09 0.22 0.026 0.001 0.002 0.002 .0002 Mechanical Properties TENSILE TEST (1. EN ISO 6892-1/2. ASTM A370) Rp0,2 Rto.5 Rm A - at room temperature-N/num² N/mm<sup>2</sup> N/mm<sup>2</sup> % Test Specimen / Strip-longitudinal Dimension (mm): 1.10.35 x 5.05/2.19.25 x 5.15 1. 332 456 35 Section (mm2): 1.75.24/2.140.87 Length - (Lo) (mm): 1.50/2.50.8 2 331 36 Drift expanding test Flattening test Charpy V - Notch (EN ISO 148-1) Ring tensile test (EN ISO 8493) (EN ISO 8492) KV/Longitudinal 5 x 10 [mm] (EN ISO 8496) OK 72 (69; 73; 75) J (0° C) OK Hydraulic test pressure 17.2 MPa (172.4 bari) for 5 sec: OK Heat treatment: normalized during hot rolling process, Grain size ASTM E 112: 8.5 temperature between 880°C - 940°C and cooled in still air Melting process: electric arc furnace, fully killed

Visual inspection and dimensional check: OK

The manufacturer of pipes is certified in acc. with ISO 9001:2015. ISO 14001:2015 and ISO 45001:2018

"NO WELD REPAIR ON HEREBY CERTIFIED TUBES"

## **OC & LABORATORIES CHIEF**

Dipl. Eng. Silviu Barbulescu



MILL INSPECTOR

Eng. Constantin Lupu

THE JATTON S.A. ANZAT C.E.C.

This inspection certificate is electronie.

The forgery of this certificate concludes to responsibility mentioned on Romanian Penal Code (art. 290-292). THIS IS FOR CERTIFY THAT THE MATERIAL HEREIN DESCRIBED HAS BEEN MANUFACTURED WITH THE ORDERED SPECIFICATION AND THAT INFORMATION IS CORRECT, THEY MEET THE SPECIFICATION'S REQUIREMENTS AND ARE RECORDS IN OUR COMPANY DOCUMENTS.



Draganesti Str. 30, Slatina, jud. OLT, Romania 230119 Tel: +40 (249) 436862, 434640, 434641 Fax: +40 (249) 434330, 437288

E-mail: office.elatina@tmk-artrom.eu www.tmk-artrom.eu J 28/9/1991; VAT No. RO 1510210/1992 Subscribed and Paid Share Capital: 291.587.538,34 lei

## INSPECTION CERTIFICATE - EN 10204: 2004 / 3.1

No: I 6524 Date: 05.09.2017 Sigla fabricii:

Manufacturer's mark:

Comanda client nr.: 16/2017 Customer Order No.: 16/2017 PL: JS 012116

Specificatii/Specification: API5L:13/

PED 2014/68/EU (Par. 4.3) +AD 2000W4/ ASTM A106:15/ASTM A53:12/ EN 10216-2:13/

ISO 3183:12

Dimensiune / Dimensions: 159.0 x 5.0 x 6 000+100/-0 mm Otel / Steel: Gr. B PSL1/

> Gr.B/ P235GH TC1/P265GH TC1/ L245 PSL1

Description: Hot rolled seamless steel pipes; marking by painting at one end: TMK-ARTROM, standard, dimension, steel grade, SMLS, heat no., lot, LENGTH(m), mill inspector no. 5 // standard, steel grade, 18.98 Kg/m, TEST PRESSURE 2500 PSI;

Nr. Sarja / Heat No.: 47578

Cantitatea livrata/ Quantity delivered Bucati / Pcs. Lungime/Length - m Greutate / Weight- Kg 43 258.0 4902

Compozitia chimica pe otel lichid / Ladle Chemical Analysis [%] Heat no. C Mn S P Ni Cr Mo Cu Nb Ti 47578 0.12 0.53 0.002 0.007 0.20 0.08 0.05 0.01 0.22 0.022 0.001 0.001 0.002 .0003

Cr+Cu+Mo+Ni= 0.36

Nb+V=0.003 Nb+V+Ti=0.004

Compozitia chimica pe otel produs / Product Chemical Analyse (%) Heat no. Mn S P Si Ni Cr Mo Cu AI Ti B 47578 0.11 0.53 0.004 0.009 0.19 0.09 0.05 0.02 0.21 0.022 0.001 0.001 0.001 .0003 47578 0.12 0.54 0.003 0.009 0.20 0.09 0.05 0.02 0.21 0.022 0.002 0.002 0.002 .0003

Caracteristici mecanica / Mechanical Properties

|                                                           |                                               | Caracteristic meetinee/ 2/200mmet 110                                  | perties                                |                |                                        |               |
|-----------------------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------------------------------|----------------|----------------------------------------|---------------|
|                                                           | - at room to                                  | TENSILE TEST (EN ISO 6892-1) emperature- nen // Tronson / Full section | Rp <sub>0,2</sub><br>N/mm <sup>2</sup> | Rto,5<br>N/mm² | Rm<br>N/mm²                            | <b>A</b><br>% |
| D                                                         |                                               | ion (mm): 26.9 x 5.05                                                  |                                        |                |                                        |               |
|                                                           | Sectione / Section                            | 389                                                                    | 391                                    | 471            | 38                                     |               |
|                                                           | Lungime / Length                              | - (Lo) ( mm): 80                                                       |                                        |                |                                        |               |
| Test largire dom<br>Drift expanding test<br>(EN ISO 8493) | Test aplatizare Flattening test (EN ISO 8492) | Test Charpy - crestatura V<br>Charpy V - Notch (EN ISO 148-1)          |                                        | Ring to        | ctiune inel<br>ensile test<br>(O 8496) |               |
| OK                                                        | OK                                            | -                                                                      |                                        |                | 2                                      |               |

Hydraulic test pressure (ASTM A530): 2500 PSI for 5 sec: OK

Melting process: electric arc furnace, fully killed

Heat treatment: normalized during hot rolling process,

temperature between 880°C - 940°C and cooled in still air Bending test (ASTM A106 point 11): OK

Grain size ASTM E 112: 9.0

Hardness HRB: 74-75-74-75

Hardness HRC max 22 (acc to NACE MR01.75/ISO 15156)

NACE MR01.03/ISO 17495-1

Inspectia vizuala si dimensionala: OK / Visual inspection and dimensional check : OK

The manufacturer of pipes is certified by LRQA in accordance with: ISO 9001:08 (certificate no. 6007159 issued by 2015-08-10, valid until 2018-08-10), ISO 14001:04 (certificate no.6007157 issued by 2015-08-16, valid until 2018-08-10), OHSAS 18001:07 (certificate no.6007158 issued by 2015-08-12, valid until 2018-08-10).

The material "not contain intentional additions of elements such as lead, selenium, or sulphur to improve machinability" "TEVILE CERTIFICATE NU AU FOST REMANIATE PRIN SUDURA"

"NO WELD REPAIR ON HEREBY CERTIFIED TUBES "

Sef serviciu CTC Laboratoare

QC & LABORATORIES CHIEF Dipl. Eng. Silviu Barbulescu

INSPECTOR CTC MILL INSPECTOR Eng. Constantin Lupu

---

C. Will

Ausgestellt im Einvernehmen mit dem TÜV SÜD (02/98) Issued in agreement with TÜV SÜD (02/98)

THIS IS FOR CERTIFY THAT THE MATERIAL HEREIN DESCRIBED HAS BEEN MANUFACTURED WITH THE ORDERED SPECIFICATION AND THAT INFORMATION IS CORRECT, THEY MEET THE SPECIFICATION'S REQUIREMENTS AND ARE RECORDS IN FOUR COMPANY DOCUMENTS.



A01/Nazwa wytwórcy/ Manufacturer's Works/ Herstellerwerk

ALCHEMIA S.A. ul. Aleje Jerozolimskie 92, 00-807 Warszawa

Oddział Rurexpol ul. Trochimowskiego 27

42-207 Czestochowa

www.alchemiasa.pl

A02/Rodzaj dokumentu kontroli/Type of Inspection document/ Art der Prüfbescheinigung:

## SWIADECTWO ODBIORU

Atest/Inspection Certificate/Abnahmeprüfzeugnis nach EN 10204: 2004-3.1 ISO 9001:2015, Certificate No: 04 100 950250-002

A06/0dbiorca/Addressee/Abnehmer

NIMFA-COM S.R.L. RACARI 12A, BL.43, SC.A, ET.4, AP.24 031827 - BUCURESTI SECTOR 3

Nr: 30978 A08/Specyfikacja /Specification/Spezifikation:

A08/ Dokumenty dostawy /Delivery note/Liefer scheim: 36223

Nr. auta/Car no./Auto nr: MM 23BVL / MM 83BVL

B01/Wyrób / Product / Erzeugnis:

Rury stalowe bez szwu fazowane/Seamless steel pipes with bevelled ends Nahtlose Stahlrohre mit Schweißphase

(Pipes from stock)

B02/Gatunek / Material designation / Werkstoff:

P265Gh TC1

B04 Stan dostawy / State of Delivery / Lieferzustand:

Normalizowane/Normalization/ Normalisierung: 880°C – 940°C

Rury walcowane na goraco/Hot formed pipes/Warmgeformte Rohre

Z02/Data/date/Datum:

20.04.2022

A03/Nr. dokumentu/Document numer/Bescheinigungsnummer:

Nr: RXP/742/E/22

A07/Kontrakt / Contract / Vertrag:

R2200169/40/1

B09-B11/Wymiary/ Dimensions/Abmessungen:

219.1 mm x 5.0 mm length: 4.00 m - 12.00 m

B03/Warunki techniczne odbiora/Testrequirements/Prüfbedinungen:

EN 10216-2:2013 PED2014/68/EU

Z05/Dopuszczenie/ Admittance/Zulassung: Producent materiałów posiada oceniony system jakości w odniesieniu do materiałów według zał. I pkt. 4.3 Dyrektywy PED2014/68/EU oraz, AD2000-Merkblatt W0 przez TÜV Thüringen Ludustrie Service GmbH. Jednostka nutyfiltowana nr 0090, nr. certyfikatu 0090-151-871/The Producer has a reviewed quality system in reference to materials acc 1,sec 4.3 Directive PED 2014/68/EU and AD2000-Merkblatt W0 by Notivied Body TÜV Thüringen Industrie Service GmbH, reg.-no 0090, certificate no, 0090-151-0871/Der Hersteller hat ein beurteiltes Qualitätssystemin Bezug auf die Werkstoffe nach dem Anh. 1, Kap. 4.3 Directive PED 2014/68/EU und AD2000-Merkblatt W0 durch in TÜV Thüringen dustrie Service GmbH,notifizierte Stelle,Kenn-Nr.0090, Zertifikat Nr. 0090-151-0871

| Własności mec                                      | haniczne/Mechen                                       | inical properties                           | Mechanische eig                                                                       | enschaften EN                                                         | ISO 6892-1                                              |                                                       | Prób                                                                      | a udarności / Impac                                   | test / Ker | bschlagversi                                    | ich EN ISC | 148-1                                                    | Den Uldokovi                                                               |
|----------------------------------------------------|-------------------------------------------------------|---------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------|------------|-------------------------------------------------|------------|----------------------------------------------------------|----------------------------------------------------------------------------|
| C71-C90<br>Numer wytopu<br>Heat No.<br>Schmelze Nr | C02 Kierunek Próby Direction of test pieces Probenri- | C00/ Nr.<br>próby<br>Sample No.<br>Probe Nr | G11<br>Granica<br>plasty-<br>Czności<br>Yield or<br>Proof<br>strength<br>Streck-order | C12<br>Wytrzym<br>a-łość<br>Tensile<br>strength<br>Zugfestig-<br>keit | C13 Wydłużenie Elongation after Fracture Bruchdeh- nung | C02 Kierunek Próby Direction of test pieces Probenri- | C40/C41 Typ proby Szerokość proby Type of test Piece. Width of test piece | C03<br>Temperatura<br>Temperature<br>Temperatur<br>°C | Inc        | C42<br>tości pojed<br>fividuat va<br>Einzelwert | lues       | C43<br>Wartość<br>średnia<br>Mean<br>value<br>Mittelwert | C30<br>Pomiar<br>Twardości<br>Hardeness<br>test<br>Härteprufung<br>Wartość |
|                                                    | chung                                                 |                                             |                                                                                       | Rm                                                                    |                                                         | chtung                                                | Probenform<br>Probenbreite                                                |                                                       | 1.         | 2,                                              | Э,         |                                                          | średnia<br>Mean value<br>Mittelwert                                        |
| 20.000.000.000                                     | nia / Requieme                                        | nts /                                       | MPa                                                                                   | MPa                                                                   | A5 %                                                    |                                                       |                                                                           |                                                       |            |                                                 |            |                                                          |                                                                            |
|                                                    | forderungen.<br>Pipe body/Rob                         | nrkörper                                    | min.<br>265                                                                           | 410<br>570                                                            | min.<br>23.0                                            |                                                       | KV <sub>2</sub>                                                           |                                                       |            | mi                                              | n. 40J     | 1                                                        |                                                                            |
| 910715                                             |                                                       | 9885                                        | 371                                                                                   | 476                                                                   | 26.1                                                    | L                                                     | 10 x 2,5                                                                  | 0                                                     | 73         | 76                                              | 73         | 74                                                       |                                                                            |
|                                                    |                                                       | Oddzi                                       | si Ru                                                                                 | r sakawa 1                                                            |                                                         |                                                       |                                                                           |                                                       |            |                                                 |            |                                                          |                                                                            |

70/Sposób wytopu stali. / Way of casting./ Ehrschmelzungsverfahren. : EAF – Oxygen Electric Are Furnace//Stal uspokojona/Fully killed/Beruhigter Stahl

Huta/Steelworks/Stahlwerk: ArcelorMittal Poland S.A.

Sztuki Długość Numer wytopu C71-C90/ Analiza chemiczna [%] / Chemical Composition [%] / Chemische Zusammensetzung [%] Weight Number Length Heat No Gewicht Schmelze Nr of piece Länge [ kg ] C Stückz-Mn Si Cr Ni Cu Mo  $C_{\rm E}$ ahl 910715 1 11.88 314 0.17 0.22 1.00 0.008 | 0.002 | 0.020 | 0.002 | 0.011 | 0.031 | 0.020 | .0078 | 0.001 | 0.003 | 0.001 0.34

Numery rur zgodnie ze specyfikacją na liście przewozowej nr/Pipe no according to pipe specification on Packing List no/Rohrnummern gemäß Augabe auf Frachtbrief Nr.:30978

Badania / Tests / Prüfung:

Kontrola wizualna i wymiarowa/Visual inspection and checking of dimensions/Besichtigung und Massprüfung;

Próba szczelności/Hydraulic test at pressure/ Dichtigkeitstest 7,0 MPa

Próba spłaszczania/Flattening test/Ringfaltversuch

- Wynik pozytywny/Positive results/Pozytives Ergebnis
- Wynik pozytywny/Positive results/Pozytives Ergebnis
- Wynik pozytywny/Positive results/Pozytives Ergebnis

Miniejszym potwierdza się, że dostawa została skontrolowana i odpowiada warunkom zamówienia. / We hereby certify, that the material described above has been tested and complies with terms of the order contract./Es wird bestätigt, das die Lieferung geprüft wurde und den Vereinberungen bei der Bestellung entspricht.

we przy użycie systemu GENIE 2000, produkcja Conberna-Packerd. The tested material dtd not show any signs of radioactivity. The measurement was performed with the end in dem untersuchten Material wurde keine Radioactivitist gekinden. Die Messung wurde mit dem GENIE-2000-System gemacht, Hersleter: Canberra-Packard.

Kontrola Jakości/Control of Manufacture

Z02/Z03Spucjalista Kontroli/Works Inspector

Pabrikationskontrolle

Der Werksochverstindigen Badany materiał nie wykszał radioaktywności. Pomiar został wykonar application of GENIE 2000 system, manufactured by Canberra-Packa DOJ/Rury oznakowano / Pipes Markings / Kennzeichnu

Acc. to: EN10216

ALCHEMIA S.A. Oddział Rurexpol Dział Kontroli Jakości Rurexpol Branch

Quality Control Department

Specjalista kontroli jakošci odbioru rur - Kierownik Zespołu

Sebastian Kalka

T- Poprzeczna/ Transverse/ Quer L- Wzdłużna/ Longitudinal/ Längs



A01/Nazwa wytwórcy/ Manufacturer's Works/ Herstellerwerk: ALCHEMIA S.A.

Oddział Rurexpol ul. Trochimowskiego 27 42-207 Czestochowa www.alchemiasa.pl

A02/Rodzaj dokumentu kontroli/Type of Inspection document/ Art der Prüfbescheinigung:

## SWIADECTWO ODBIORU

Atest/Inspection Certificate/Abnahmeprüfzeugnis nach EN 10204: 2004 - 3.1 ISO 9001 :2015, Certificate No: 04 100 950250-002

A06/0dbiorca/Addressee/Abnehmer

NIMFA-COM S.R.L. RACARI 12A, BL.43, SC.A, ET.4, AP.24 031827 - BUCURESTI SECTOR 3

A08/Specyfikacja /Specification/Spezifikation: A08/Dokumenty dostawy /Delivery note/Liefer scheim: 36223

Nr. auta/Car no./Auto nr: MM 23BVL / MM 83BVL

B01/Wyrób / Product / Erzeugnis:

Rury stalowe bez szwu fazowane/Seamless steel pipes with bevelend ends Nahtlose Stahlrohre mit Schweißphase

(Pipes from stock)

B02/Gatunek / Material designation / Werkstoff:

GRADE B / P265GH TC1

B04 Stan dostawy / State of Delivery / Lieferzustand:

Normalizowane/Normalization/Normalisierung: 880°C – 940°C

Z02/Data/date/Datum:

20.04.2022

A03/Nr. dokumentu/Document numer/Bescheinigungsnummer:

Nr: RXP/729/E/22

A07/Kontrakt / Contract / Vertrag: R2200169/10/2

B09-B11/Wymiary/ Dimensions/Abmessungen:

273 mm x 6.35 mm length: 4.00 m - 12.00 m

B03/Warunki techniczne odbioru/Testrequirements/prüfbedinungen:

ASME B36.10M, EN 10216-2:2013 ASTM/ASMEA/SA106M-2015

PED2014/68/EU annex I sec4.3, AD2000-W4 sec7 ASME sec.II partD Tabelle Y-1 ASME sec. II part. A-2014,

ASTM/ASMEA/SA530, ASTM/ASMEA/SA370 NACE MR 0175 / NACE MR0103 PS-ASME-PIPE-SMLS-CS-01-A106B

Without rust protected, inside bare.

Z05/Dopuszczenie/ Admittance/Zulassung: Producent materiałów posiada oceniony system jakości w odniesieniu do materiałów według zał. 1 pkt. 4.3 Dyrektywy PED2014/68/EU oraz, AD2000-Merkblatt W0 przez TÜV SÜD Industrie Service GmbH, Jednostka notyfikowana nr 0036, nr. certyfikatu DGR-OO36-QS-W 472/2011/MUC//The Producer has a reviewed quality system in reference to materials acc 1,sec 4.3 Directive PED 2014/68/EU and AD2000-Merkblatt W0 by Notivied Body TÜV SÜD Industrie Service GmbH, reg.-no 0036,certificate no. DGR-OO36-QS-W 472/2011/MUC//Der Hersteller hat ein beurteiltes Qualitätssystemin Bezug auf die Werkstoffe nach dem Anh. 1, Kap. 4.3 Direktive PED 2014/68/EU und AD2000-Merkblatt W0 durch TÜV SÜD Industrie Service GmbH, notifizierte Stelle, Kenn-Nr. 0036, Zertifikat Nr. DGR-OO36-QS-W 472/2011/MUC

| Własności me                                       |                                                                         |                                                | properties/Mec                                       | hanische eig                                                          | genschaften                                             |                                                       |                                                                           | Próba udarności                                 | / Impact | test / Kerb                                  | schlagversu     | ch                                                    |                                                                  |
|----------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------|----------|----------------------------------------------|-----------------|-------------------------------------------------------|------------------------------------------------------------------|
| C71-C90<br>Numer wytopu<br>Heat No.<br>Schmelze Nr | C02<br>Kierunek<br>Próby<br>Direction<br>of test<br>pieces<br>Probenri- | C00/ Nr.<br>próby<br>Sample<br>No.<br>Probe Nr | C11 Granica plasty- Czności Yield or Proof strength  | C12<br>Wytrzy<br>ma-łość<br>Tensile<br>strength<br>Zugfestig-<br>keit | C13 Wydłużenie Elongation after Fracture Bruchdeh- nung | C02 Kierunek Próby Direction of test pieces Probenri- | C40/C41 Typ próby Szerokość próby Type of test Piece. Width of test piece | C03<br>Temperatura<br>Temperature<br>Temperatur | Wa       | C42<br>rtości poje<br>dividual v<br>Einzelwe | dyncze<br>alues | C43<br>Wartość<br>średnia<br>Mean value<br>Mittelwert | C30 Pomiar Twardości Hardeness test Härteprufung Wartość średnia |
| Wymagani                                           | chtung                                                                  | ents /                                         | Streck-order<br>Dehngrenze<br>R <sub>02</sub><br>MPa | Rm                                                                    | 1A2"%                                                   | chtung                                                | Probenform<br>Probenbreite                                                |                                                 | 1.       | 2.                                           | 3.              |                                                       | Mean value<br>Mittelwert                                         |
| Wymagania / Requiements / Anforderungen.           |                                                                         |                                                | min.                                                 | MPa<br>415<br>570                                                     | 2A5<br>1min.25.5<br>2min.23.0                           |                                                       |                                                                           |                                                 |          | 10x10x                                       | k55 min         | 28J                                                   | max.<br>209                                                      |
| 812301<br>Ret 425°C mi                             |                                                                         | 1731<br>1731                                   | 345<br>168                                           | 457                                                                   | 132.4<br>229.6                                          | L                                                     | 10 x 5                                                                    | -10                                             | 74       | 73                                           | 73              | 73                                                    | 134                                                              |
| C70/Sposób wyt                                     | tonu stali / V                                                          | Vay of castir                                  |                                                      |                                                                       |                                                         |                                                       | ctric Are Furnace/                                                        |                                                 |          |                                              |                 |                                                       | w 1                                                              |

Huta/Steelworks/Stahlwe ArcelorMittal Poland S.A

Numer wytopu Sztuki Długość C71-C90/Analiza chemiczna [%] / Chemical Composition [%] / Chemische Zusammensetzung [%] Weight Gewicht Heat No Number Length of piece Schmelze Ni Länge [kg] C Stückz-Mn Si Nh  $\mathbb{C}_{\mathbf{E}}$ ahl 812301 1 5.37 222 0.18 0.96 0.24 0.008 | 0.003 | 0.020 | 0.003 | 0.015 | 0.026 | 0.030 | .0090 | 0.001 | 0.003 | 0.002 0.34

Badania / Tests / Prüfung:

Kontrola wizualna i wymiarowa/Visual inspection and checking of dimensions/Besichtigung und massprüfung:

Próba szczelności/Hydraulic test at pressure/ Dichtigkeitstest 7,0 MPa (5s)

Próba spłaszczania/Flattening test/Ringfaltversuch

- Wynik pozytywny/Positive results/Pozytives Ergebnis
- Wynik pozytywny/Positive results/Pozytives Ergebnis.
- Wynik pozytywny/Positive results/Pozytives Ergebnis.

Niniejszym potwierdza się, że dostawa została skontrolowana i odpowiada warunkom zamówienia. / We hereby certify, that the material described above has been tested and complies with terms of the order contract./Es wird bestätigt, das die Lieferung geprüft wurde und den Vereinberungen bei der Bestellung entspricht.

Badany meterial nie wykazał radioaktywnosci. Pomiar został wykonany przy użyciu systemu GENIE 2000, produkcja Canberra-Packard. The tested material did not show any signs of radioactivity. The measurement was performed with the application of GENIE 2000 system, manufactured by Canberra-Packard. In dem untersuchten Material wurde keine Radioaktivität gefunden. Die Messung wurde mit dem GENIE-2000-System gemacht, Hersteller: Canberra-Packard.

D01/Rury oznakowano / Pipes Markings / Kennzeichnu

Acc. to: ASTMASA106M/EN10216-2

Kontrola Jakości/Control of Manufacture

ALCHEMIA S.A. Oddział Rurexpol Dział Kontroli Jakości Rurexpol Branch

Quality Control Department

Z02/Z03Specjalista Kontroli/Works Inspector Der Werksachverständigen

jakorci odbioru ru espołu

Sebastian Kalka

T- Poprzeczna/ Transverse/ Quer L- Wzdłużna/ Longitudinal/ Längs Rurexpol w Częstochowie



Karadenizilier Mah. Ordutu Cad. No: 82, 41140 PK334 Başıskele KOCAELi / TÜFİKİVE Tel: 444 78 52 (444 - PTKB) +90 (262) 349 37 90 / 91 +90 (262) 349 25 50 / 51 Fax: +90 262 349 37 59 petekboru.com.tr

MILLTEST CERTIFICATE EN 10204 3.1

Customer/Müşteri: S.C. NIMFA - COM S.R.L.

Order No-LC No/Sipariş No: 6478

Date/Tarih

: 6.02.2022

Certificate/Sertifika No : 5397

Standart No/Norm: TS EN 10217- 5

Pipe Type/Boru Tipi: SAWH

| Item Pos.<br>Sira No: | Dimensions OdxWtxL<br>Ölçüler | Pieces<br>Adet | Total Length<br>Metre |
|-----------------------|-------------------------------|----------------|-----------------------|
| 1                     | 530,00 X 8,00                 | 9              | 108,00                |
| 2                     | 820,00 X 10,00                | 5              | 60,00                 |
| 3                     | 920,00 X 10,00                | 9              | 108,00                |
| 4                     | 1020,00 X 10,00               | 5              | 60,00                 |

| HT<br>bar/sec | BD | GBT | NDT | VD | US |
|---------------|----|-----|-----|----|----|
| 70/5          | 30 | ОК  | OK  | ОК | OK |
| 57/10         | 30 | OK  | OK  | OK | OK |
| 46/10         | 30 | OK  | OK  | OK | OK |
| 37/10         | 30 | OK  | OK  | OK | OK |

| Item Pos. | Bant N*Heat No | V   | Cu  | Ni  | Cr  | Mo  | Al | Nb   | Ti  | 5   | Р   | Mn    | Si   | C      | Steel Grade | Temp.       |          | Material  |       |          | Weld      |       |
|-----------|----------------|-----|-----|-----|-----|-----|----|------|-----|-----|-----|-------|------|--------|-------------|-------------|----------|-----------|-------|----------|-----------|-------|
| Sira No:  | Döküm No:      |     |     |     |     |     |    | X100 |     |     |     |       |      |        | Kalite      | Sicaklik ºC | Re(N/mm² | Rm(N/mm²) | A (%) | Re(N/mm² | Rm(N/mm²) | A (%) |
| 1         | 124922         | 0,6 | 2,2 | 2,7 | 1,3 | 0,0 |    | 0,0  | 0.2 | 0,5 | 1.3 | 90.2  | 19,3 | 16.6   | P265GH TC1  | 23 ºc       | 382,6    | 552,3     | 36.8  | 472.84   | 592.5     | 22.5  |
| 2         | 915598         | 0,3 | 2,9 | 3,1 | 3,5 | 0,3 |    | 0,3  | 0,2 | 0,5 | 1.6 | 46.4  | 6,3  | 10.000 | P235GH TC1  | 23 ºc       | 326.7    | 435.6     | 37.4  | 326,67   | 483.6     | 26,0  |
| 3         | 235402         | 0,1 | 1,6 | 2,9 | 2,2 | 0,0 |    | 0,0  | 0,1 | 0,3 | 1.6 | 108,7 | 1    |        | P265GH TC1  | 23 ºc       | 406,1    | 532,7     | 32,9  | 418.89   | 550,3     | 26,3  |
| 4         | 235402         | 0,1 | 1,6 | 2,9 | 2,2 | 0,0 |    | 0,0  | 0,1 | 0,3 | 1,6 | 108,7 | 18,5 |        | P265GH TC1  | 23 ºc       | 432.6    | 560.2     | 35,3  | 453,22   | 590.6     | 25.3  |

OD: Dış Çap / Outside Diameter

WT: Et Kalınlığı / Wall Thickness BD: Havşa Acısı / Bevel Degree VD: Göz/Ebat Kontrol / Visual Dimension

Re: Akma dayanımı / Yield Stress Rm: Çekme Dayanımı / Tensile Strength A%: Uzama / Elongation

GBT:Eğme testi/Guided Bend Test HT: Hidrotest / Hydrostatic Test

N.D.T.:Tahribatsız test / Non-Destructive Testing

US : Ultrasonic test as per TS EN ISO 10893-11



ISO 9001:2015 ISO 14001 :2015 ISO 45001:2018



EYS-SEK12-FR24 (R1)





Digitally signed by TMK-ARTROM SA.
This document is certified to be electronicall
controlled and approved.
Signature requested by Maria Carmen Ivance
on 2022-11-24 14-50 52 801-92 00

TMK-ARTROM S.A.

Draganesti Str. 30, Slatina, jud. OLT, Romania 230119 Tel: +40 (249) 436862, 434640, 434641 Fax: +40 (249) 434330, 437288

E-mail: office.slatina@tmk-artrom.eu www.tmk-artrom.eu EUID: ROONRC.J28/9/1991; J28/9/31.01.1991 VAT No. RO 1510210/1992

Subscribed and Paid Share Capital: 291.587.538,34 lei

#### INSPECTION CERTIFICATE - EN 10204: 2004 / 3.1

No: I 7441 Manufacturer's mark: Customer Order No.: 192 PL: 1555 Date: 18.11.2022 **CUSTOMER: NIMFA-COM SRL** Dimensions: 21.3 x 2.6 x 6 000+100/-0 mm Specification: EN 10210-1:06/ EN 10210-2:19/ EN 10216-3:13/ Steel: S355.I2H/ P355NH TC1/ EN 10216-2:13/ EN 10216-1:13 P265GH TC1/ P265TR2 Description: Hot rolled seamless steel pipes; unprotected; marking by painting at one end: manufacturer's mark, standard, steel grade, heat no, LOT, LENGTH (m), mill inspector no. 5, technical control sign Heat No.: R59579 Steel melt and rolled in ROMANIA Quantity delivered Pcs. Length - m Weight- Kg 468 2808.0 3404

Ladle Chemical Analysis [%]

| C    | Mn   | S     | P     | Si   | Ni   | Cr   | Mo   | Cu   | Al    | Nb    | Ti    | V     | CE    |
|------|------|-------|-------|------|------|------|------|------|-------|-------|-------|-------|-------|
| 0.15 | 1.06 | 0.005 | 0.014 | 0.21 | 0.11 | 0.08 | 0.03 | 0.25 | 0.023 | 0.002 | 0.001 | 0.003 | 0.373 |

Cr+Cu+Mo+Ni=0.47 Nb+V=0.005 Nb+V+Ti=0.006 **Mechanical Properties** 

| · · · · · · · · · · · · · · · · · · · |                                  |                                                          |                                   |             |               |  |  |  |  |  |
|---------------------------------------|----------------------------------|----------------------------------------------------------|-----------------------------------|-------------|---------------|--|--|--|--|--|
|                                       | – at room                        | ST (EN ISO 6892-1) n temperature- n / Strip—longitudinal | Rp0,2<br>N/mm²                    | Rm<br>N/mm² | <b>A</b><br>% |  |  |  |  |  |
| Dimension                             | n (mm): 1. 15.20 x 2             | .55 / 2. 15.30 x 2.65 / 3. 15.35 x 2.60                  | 1. 404                            | 522         | 36            |  |  |  |  |  |
|                                       | Section (mm²): 1.                | 43.09 / 2. 45.19 / 3. 44.48                              | 2. 398                            | 528         | 38            |  |  |  |  |  |
|                                       | Length - (Lo) (m                 | m): 1. 35 / 2. 35 / 3. 35                                | 3. 396                            | 520         | 37            |  |  |  |  |  |
| Drift expanding test<br>(EN ISO 8493) | Flattening test<br>(EN ISO 8492) |                                                          | Ring tensile test<br>EN ISO 8496) |             |               |  |  |  |  |  |
| OK                                    | OK                               | -                                                        |                                   | -           |               |  |  |  |  |  |

Heat treatment: normalized temperature between 880-940°C Melting process: electric arc furnace, fully killed Test Eddy Current cf. EN ISO 10893-1: OK

Visual inspection and dimensional check: OK

The manufacturer of pipes is certified in acc. with ISO 9001: 2015, ISO 14001:2015 and ISO 45001:2018

NO WELD REPAIR ON HEREBY CERTIFIED TUBES

The material "not contain intentional additions of elements such as lead, selenium, or sulphur to improve machinability"

#### Chief of QC & Testing of the Metallurgical Tubes Products Dipl. Eng. Silviu Barbulescu

CCTPMT

MILL INSPECTOR

Eng. Constantin Lupu



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0036- CPR-M-008-2007

TMK-ARTROM S.A. Draganesti Street, No.30, 230119, SLATINA, OLT, ROMANIA 22

No. 6-4E / CPR 15-10-19

EN 10210-1:2006

S355J2H / 1.0576

intended to be used in metal structures or in composite metal and concrete structures

**Tolerances: Elongation:** Tensile strength: Yield strength:

Impact strength: Weldability:

in the DoP

expressed as indicated

Durability:

Dangerous substance: No performance determined

THIS IS FOR CERTIFY THAT THE MATERIAL HEREIN DESCRIBED HAS BEEN MANUFACTURED WITH THE ORDERED SPECIFICATION AND THAT INFORMATION IS CORRECT, THEY MEET THE SPECIFICATION'S REQUIREMENTS AND ARE RECORDS IN OUR COMPANY DOCUMENTS.



Draganesti Str. 30, Slatina, jud. OLT, Romania 230119 Tel: +40 (249) 436862, 434640, 434641 Fax: +40 (249) 434330, 437288

E-mail: office.slatina@tmk-artrom.eu www.tmk-artrom.eu EUID: ROONRC.J28/9/1991; J28/9/31.01.1991 VAT No. RO 1510210/1992

Subscribed and Paid Share Capital: 291.587.538.34 lei

## TMK-ARTROM S.A.

# INSPECTION CERTIFICATE - EN 10204: 2004 / 3.1

No : I 5093 Manufacturer's mark: Customer Order No. : 169 PL: 0972

Date: 30.06.2022

CUSTOMER- NIMFA-COM SRL

Specification: EN10210-1:06/ EN10210-2:19/ ISO 3183:19/ EN 10216-1:13/ EN 10216-2:13/ EN 10297-1:03/ ASTM A106:19/

PED 2014/68/EU

Dimensions: 33.7 x 2.9 x 6 000+100/-0 mm

Steel: S355J2H N/ L245/ P265TR2/ P265GH TC1/ E275/ Gr. B

Description: Hot rolled seamless steel pipes, unprotected: marking by painting at one end: manufacturer's mark, standard, dimension, steel grade, SMLS, heat no., LOT, LENGTH(m), mill inspector no. 5

| Heat No.: R58811   |      | Steel melt and rolled in Romania |            |
|--------------------|------|----------------------------------|------------|
| Quantity delivered | Pcs. | Length - (m)                     | Weight- Kg |
| 3 8                | 265  | 1590.0                           | 3532       |

Ladle Chemical Analysis [%]

| Heat no. | C    | Mn   | S    | P    | Si   | Ni   | Cr   | Mo   | Cu   | Al   | Nb   | Ti   | V    | В      | CEV   |
|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|-------|
| R58811   | 0.18 | 1.20 | .003 | .011 | 0.23 | 0.11 | 0.06 | 0.05 | 0.28 | .029 | .001 | .001 | .005 | 0.0005 | 0.429 |

Nb+V=0.006 Nb+V+Ti=0.007

Product Chemical Analyse (%)

| Heat no. | C    | Mn   | S     | P     | Si   | Ni   | Cr   | Mo   | Cu   | Al    | Nb    | Ti    | V     | В      |
|----------|------|------|-------|-------|------|------|------|------|------|-------|-------|-------|-------|--------|
| R58811   | 0.18 | 1.20 | 0.002 | 0.014 | 0.22 | 0.11 | 0.08 | 0.05 | 0.29 | 0.030 | 0.001 | 0.002 | 0.002 | 0.0005 |
| R58811   | 0.17 | 1.22 | 0.004 | 0.014 | 0.23 | 0.10 | 0.08 | 0.05 | 0.29 | 0.030 | 0.001 | 0.001 | 0.002 | 0.0005 |

Mechanical Properties

| TENSILE TEST (1                       | I. EN ISO 6892-1/2. A<br>Test Specimen _ S | ASTM A370) at room temperature-<br>trip-longitudinal | <b>Rp</b> 0,2<br>N/mm <sup>2</sup> | Rto,5<br>N/mm² | Rm<br>N/mm²   | A<br>% |
|---------------------------------------|--------------------------------------------|------------------------------------------------------|------------------------------------|----------------|---------------|--------|
| Dimension (m                          | m): 1.1. 15.00 x 2.95 /                    | 1.2. 15.30 x 3.00 / 2. 12.65 x 3.05                  | 1.1. 395                           | -              | 523           | 38     |
| Sec                                   | tion (mm <sup>2</sup> ): 1.1. 46.0         | 02 / 1.2. 47.82 / 2. 39.69                           | 1.2. 397                           |                | 520           | 37     |
| Le                                    | ngth - (Lo) ( mm): 1.                      | 1. 40 / 1.2. 40 / 2. 50.8                            | 2                                  | 406            | 529           | 37     |
| Drift expanding test<br>(EN ISO 8493) | Flattening test<br>(EN ISO 8492)           | Charpy V – Notch (EN ISO 148-1)                      | Cha                                | urpy V – Notch | (EN ISO 148-1 | )      |
| OK                                    | OK                                         | 925                                                  |                                    | 2              |               |        |

Hydraulic test pressure  $20.5\ \mathrm{MPa}$  for 5 sec: OK

Heat treatment: normalized during hot rolling process,

temperature between  $880^{\circ}\text{C}$  -  $940^{\circ}\text{C}$ 

Bending test (ASTM A106 point 11): OK

Melting process: electric arc furnace, fully killed

Hardness HRB: 85-86

Hardness HRC max 22 (acc to NACE MR0175/ISO 15156)

NACE MR0103/ISO 17945 Grain size ASTM E 112: 9.0

Visual inspection and dimensional check: OK

The manufacturer of pipes is certified in acc. with ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 "NO WELD REPAIR ON HEREBY CERTIFIED TUBES"

The material "not contain intentional additions of elements such as lead, selenium, or sulphur to improve machinability"

Chief of QC & Testing of the Metallurgical Tubes Products

Dipl. Eng. Silviu Barbulescu

MILL INSPECTOR

Eng. Constantin Lupu

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TMK-ARTROM S.A. Draganesti Street,No.30,230119, SLATINA,OLT,ROMANIA

22

No. 6-5E / CPR 18-05-22 EN 10210-1:2006

S355J2H / 1.0576 intended to be used in metal structures or in composite metal and concrete structures

Tolerances: Elongation: Tensile strength: Yield strength:

expressed as indicated in the DoP

Impact strength: Weldability:

Durability:
Dangerous substance: No performance determined

THIS IS FOR CERTIFY THAT THE MATERIAL HEREIN DESCRIBED HAS BEEN MANUFACTURED WITH THE ORDERED SPECIFICATION AND THAT INFORMATION IS CORRECT, THEY MEET THE SPECIFICATION'S REQUIREMENTS AND ARE RECORDS IN OUR COMPANY DOCUMENTS.





Draganesti Str. 30, Slatina, jud. OLT, Romania 230119 Tel: +40 (249) 436862, 434640, 434641 Fax: +40 (249) 434330, 437288

E-mail: office.slatina@tmk-artrom.eu www.tmk-artrom.eu EUID: ROONRC.J28/9/1991; J28/9/31.01.1991 VAT No. RO 1510210/1992

Subscribed and Paid Share Capital: 291.587.538,34 lei

## TMK-ARTROM S.A.

INSPECTION CERTIFICATE - EN 10204: 2004 / 3.1 No: I 5096 Manufacturer's mark: Customer Order No.: 169 PL: 0972 Date: 30.06.2022

CUSTOMER- NIMFA-COM SRL

Specification: EN10210-1:06/ EN10210-2:19/ ISO 3183:19/ EN 10216-1:13/ EN 10216-2:13/ EN 10297-1:03/ ASTM A106:19/ Dimensions: 42.4 x 3.2 x 6 000+100/-0 mm Steel: S355.J2H / L245/ P265TR2/

PED 2014/68/EU P265GH TC1/ E275/ Gr. B Description: Hot rolled seamless steel pipes, unprotected: marking by painting at one end: manufacturer's mark, standard, dimension,

steel grade, SMLS, heat no., LOT, LENGTH(m), mill inspector no. 5 Heat No.: R58960 Steel melt and rolled in Romania Weight- Kg **Quantity delivered** Pcs. Length - (m) 204 1224.0 3878

Ladle Chemical Analysis [%]

| Heat no. | C    | Mn   | S    | P    | Si   | Ni   | Cr   | Mo   | Cu   | Al   | Nb   | Ti   | V    | В      | CEV   |
|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|-------|
| R58960   | 0.18 | 1.19 | .002 | .015 | 0.24 | 0.12 | 0.08 | 0.05 | 0.20 | .024 | .002 | .002 | .003 | 0.0005 | 0.426 |

Nb+V=0.004 Nb+V+Ti=0.007

**Product Chemical Analyse (%)** 

| Heat no. | C    | Mn   | S     | P     | Si   | Ni   | Cr   | Mo   | Cu   | Al    | Nb    | Ti    | V     | В      |
|----------|------|------|-------|-------|------|------|------|------|------|-------|-------|-------|-------|--------|
| R58960   | 0.18 | 1.20 | 0.003 | 0.015 | 0.23 | 0.11 | 0.08 | 0.05 | 0.20 | 0.024 | 0.001 | 0.002 | 0.001 | 0.0005 |
| R58960   | 0.17 | 1.21 | 0.003 | 0.014 | 0.23 | 0.11 | 0.08 | 0.05 | 0.20 | 0.023 | 0.001 | 0.002 | 0.001 | 0.0005 |

**Mechanical Properties** 

| TENSILE TEST (1      | . EN ISO 6892-1/ 2               | ASTM A370) at room temperature-         | Rp0,2           | Rt0,5       | Rm    | A  |
|----------------------|----------------------------------|-----------------------------------------|-----------------|-------------|-------|----|
|                      | Test Specimen _                  | Strip-longitudinal                      | N/mm²           | N/mm²       | N/mm² | %  |
| Dimension (m         | m): 1.1. 15.40 x 3.40            | ) / 1.2. 15.60 x 3.30 / 2. 19.20 x 3.35 | 1.1. 398        | -           | 554   | 29 |
| Sec                  | tion (mm <sup>2</sup> ): 1.1. 53 | .73 / 1.2. 52.82 / 2. 66.93             | 1.2. 410        | -           | 560   | 30 |
| Lei                  | ngth - (Lo) (mm):                | 1.1. 40 / 1.2. 40 / 2. 50.8             | 2               | 407         | 559   | 31 |
| Drift expanding test | Flattening test                  |                                         | rpy V – Notch   | `           | /     |    |
| (EN ISO 8493)        | (EN ISO 8492)                    |                                         | /c/Longitudinal |             |       |    |
| OK                   | OK                               | 1 107 (                                 | 104: 112: 10    | J4 ) J (()° | (C)   |    |

Hydraulic test pressure 17.2 MPa for 5 sec: OK

Heat treatment: normalized during hot rolling process,

temperature between 880°C - 940°C Bending test (ASTM A106 point 11): OK Melting process: electric arc furnace, fully killed

Hardness HRB: 84–85

Hardness HRC max 22 (acc to NACE MR0175/ISO 15156)

NACE MR0103/ISO 17945 Grain size ASTM E 112: 9.0

Visual inspection and dimensional check: OK

The manufacturer of pipes is certified in acc. with ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 "NO WELD REPAIR ON HEREBY CERTIFIED TUBES"

The material "not contain intentional additions of elements such as lead, selenium, or sulphur to improve machinability"

Chief of QC & Testing of the Metallurgical Tubes Products Dipl. Eng. Silviu Barbulescu

MILL INSPECTOR Eng. Constantin Lupu

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No. 6-5E / CPR 18-05-22

EN 10210-1:2006

S355J2H / 1.0576

intended to be used in metal structures or in composite metal and concrete structures

**Tolerances:** Elongation: Tensile strength: Yield strength: Impact strength:

expressed as indicated in the DoP

Weldability:

Durability:

Dangerous substance: No performance determined





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TMK-ARTROM S.A.

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E-mail: office.slatina@tmk-artrom.eu www.tmk-artrom.eu EUID: ROONRC.J28/9/1991; J28/9/31.01.1991 VAT No. RO 1510210/1992

Subscribed and Paid Share Capital: 291.587.538,34 lei

#### INSPECTION CERTIFICATE - EN 10204: 2004 / 3.1

| No: I 7743                         | Manufacturer's mark:       | (II)      | Customer Or          | der No.: 183        | PL: 1611         |
|------------------------------------|----------------------------|-----------|----------------------|---------------------|------------------|
| Date: 06.12.2022                   |                            |           |                      |                     |                  |
| <b>CUSTOMER: NIMFA-</b>            | COM SRL                    |           |                      |                     |                  |
|                                    |                            |           |                      |                     |                  |
| <b>Specification:</b>              |                            |           | <b>Dimensions: 4</b> | 8.3 x 3.2 x 12 000+ | 100/-0 mm        |
| EN 10210-1:06/ EN 1021             | 10-2:19/ EN 10216-3:13/    | ′         | Steel: S355J2I       | H/ P355NL1 TC1/     |                  |
| EN 10216-2:13/ EN 1021             | 6-1:13                     |           | P265GH               | TC1/ P265TR2        |                  |
| <b>Description:</b> Hot rolled sea | amless steel pipes; unprot | ected; m  | arking by painti     | ng at one end: manu | facturer's mark, |
| standard, steel grade, heat        | no, LOT, LENGTH (m),       | mill insp | ector no. 5, techi   | nical control sign  |                  |
| Heat No.: R59547                   |                            | St        | eel melt and rolle   | ed in ROMANIA       |                  |
| Quantity delivered                 | Pcs.                       | L         | ength - m            | Weight              | – Kg             |
|                                    | 70                         |           | 840.0                | 297                 | 0                |
|                                    | Lodlo Che                  | mical A   | nolygic [0/.]        |                     |                  |

| C    | Mn   | S     | P     | Si   | Ni   | Cr   | Mo   | Cu   | Al    | Nb    | Ti    | V     | CE    |
|------|------|-------|-------|------|------|------|------|------|-------|-------|-------|-------|-------|
| 0.18 | 1.20 | 0.003 | 0.012 | 0.24 | 0.08 | 0.08 | 0.02 | 0.25 | 0.023 | 0.001 | 0.001 | 0.002 | 0.422 |

Cr+Cu+Mo+Ni=0.43 Nb+V=0.003Nb+V+Ti=0.004 N=0.009**Mechanical Properties** 

| TENSILE TEST (EN ISO 6892-1)  – at room temperature- Test Specimen / Strip—longitudinal |                                  |                                     | <b>Rp0,2</b><br>N/mm²              | Rm<br>N/mm² | <b>A</b><br>% |
|-----------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|------------------------------------|-------------|---------------|
|                                                                                         |                                  | mm): 15.60 x 3.30<br>n (mm²): 52.52 | 406 548 32                         |             |               |
| Length - (Lo) (mm): 40                                                                  |                                  |                                     |                                    |             |               |
| Drift expanding test<br>(EN ISO 8493)                                                   | Flattening test<br>(EN ISO 8492) | Charpy V – Notch (EN ISO 148-1)     | Ring tensile test<br>(EN ISO 8496) |             |               |
| OK                                                                                      | OK                               | -                                   | -                                  |             |               |

Heat treatment: normalized temperature between 880-940°C Melting process: electric arc furnace, fully killed Test Eddy Current cf. EN ISO 10893-1: OK

Visual inspection and dimensional check: OK

The manufacturer of pipes is certified in acc. with ISO 9001: 2015, ISO 14001:2015 and ISO 45001:2018

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The material "not contain intentional additions of elements such as lead, selenium, or sulphur to improve machinability"

## Chief of QC & Testing of the Metallurgical Tubes Products

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expressed as indicated Impact strength: Weldability:

in the DoP

Durability:

Dangerous substance: No performance determined

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