



ARTROM

TMK-ARTROM S.A.

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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 8409 Date: 02.11.2015		Manufacturer's mark:		Customer Order No. :		PL: 3215	
Specification: API 5L:13/ ASTM A106:14/ ASME SA106:13; EN 10216-2:13				Dimensions: 76.1 x 4.0 mm Steel: Gr. B PSL1/ Gr. B/ P265GH TC1			
Description: Hot rolled seamless steel pipes;							
Heat No. : 39037							
Quantity delivered		Pcs.	Length - m	Weight- Kg			
		9	54.0	384			

Ladle Chemical Analysis [%]

Heat no.	C	Mn	S	P	Si	Ni	Cr	Mo	Cu	Al	Nb	Ti	V
39037	0.19	1.07	0.002	0.010	0.24	0.08	0.06	0.01	0.18	0.025	0.002	0.002	0.003
Cr+Cu+Mo+Ni=0.33				Cr+Cu+Mo=0.25				Nb+V= 0.005		Nb+V+Ti= 0.007			

Product Chemical Analysis [%]

Heat no.	C	Mn	S	P	Si	Ni	Cr	Mo	Cu	Al	Nb	Ti	V
39037	0.18	1.05	0.004	0.012	0.23	0.10	0.07	0.02	0.18	0.023	0.001	0.004	0.002
39037	0.18	1.04	0.004	0.012	0.24	0.09	0.06	0.02	0.19	0.023	0.002	0.003	0.003

Mechanical Properties

TENSILE TEST (ASTM A370) Test Specimen Strip-longitudinal				Rp0,2 N/mm ²	Rt0,5 N/mm ²	Rm N/mm ²	A %
Dimension (mm) : 19.40 x 6.35				386	389	520	32
Section (mm ²) : 123.2							
Length - (Lo) (mm) : 50.8							
Drift expanding test (EN ISO 8493)	Flattening test (EN ISO 8492)	Charpy V - Notch (EN ISO 148-1) KV/Longitudinal 5 x 10 [mm]		Flattening test (ASTM A370)			
OK	OK	64 (67; 63; 61) J (0° C)		-			
Heat treatment: normalized during hot rolling process				Hydraulic test pressure 2500 PSI(172.4 bari) for 5 sec: OK			
Bending test (ASTM A106 point 11): OK				Hardness BHN: 158-161-158-161			
Grain size ASTM E 112: 8.0				Hardness HRC max 22 (acc to NACE MR01.75/ISO 15156)			

Visual inspection and dimensional check : OK

The manufacturer of pipes is certified in acc. with ISO 9001:2008, ISO 14001:2004 and OHSAS 18001:2007

" NO WELD REPAIR ON HEREBY CERTIFIED TUBES "

QC & LABORATORIES CHIEF

Dipl. Eng. Silviu Barbulescu



MILL INSPECTOR

Eng. Constantin Lupu



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 CONTAINED THE RECORDS OF OUR COMPANY.



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INSPECTION CERTIFICATE - EN 10204: 2004 / 3.1

No : I 4376 Date: 31.05.2022	Sigla fabricii: Manufacturer's mark:		Comanda client nr.: 4501890774 Customer Order No. : 4501890774	PL: 0783
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: 57 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, 5.22 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, 5.22 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 laminat in Romania/Steel melt and rolled in ROMANIA				
Cantitatea livrata/ Quantity delivered	Bucati / Pcs.	Lungime/Length - m	Greutate / Weight- Kg	
	37	445.22	2330	

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

Heat no.	C	Mn	S	P	Si	Ni	Cr	Mo	Cu	Al	Nb	Ti	V	B
R58868	0.18	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+Mo+Ni=0.43 Nb+V=0.002 Nb+V+Ti=0.003

Compozitia chimica pe produs / Product Chemical Analysis [%]

Heat no.	C	Mn	S	P	Si	Ni	Cr	Mo	Cu	Al	Nb	Ti	V	B
R58868	0.19	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	0.19	0.54	0.002	0.012	0.22	0.10	0.06	0.02	0.27	0.022	0.001	0.001	0.001	.0006

Caracteristici mecanice / Mechanical Properties

TENSILE TEST (1. EN ISO 6892-1/ 2. ASTM A370) - at room temperature-				Rp0,2	Rt0,5	Rm	A
Tip epruveta / Test Specimen // Fasie - longitudinal / Strip-longitudinal				N/mm ²	N/mm ²	N/mm ²	%
Dimensiune / Dimension (mm) : 1. 15.25 x 4.25 / 2. 19.30 x 4.25				1. 358	-	465	37
Sectiune / Section (mm ²) : 1. 65.3 / 2. 83.01							
Lungime / Length - (Lo) (mm) : 1. 45 / 2. 50.8				2. -	356	470	38
Test largire pe dorn Drift expanding test (EN ISO 8493)	Test aplatizare Flattening test (EN ISO 8492)	Test Charpy - crestatura V Charpy V - Notch (EN ISO 148-1) KV/Longitudinal 2.5 x 10 [mm]		Test Charpy - crestatura V Charpy V - Notch (EN ISO 148-1) KVc/Longitudinal 10 x 10 [mm]			
OK	OK	31 (27; 31; 34) J (-10 ⁰ C)		123 (108; 124; 136) J (-10 ⁰ C)			
Hydraulic test pressure (ASTM A530): 17.2 MPa for 5 sec: OK Heat treatment: normalized during hot rolling process Melting process: electric arc furnace, fully killed				Hardness HRB: 76-77 Hardness HRC max 22 (acc to NACE MR0175/ISO 15156) NACE MR0103/ISO 17945 Grain size ASTM E 112: 9.0			

Hot yield at 300°C: 287 MPa(strip longitudinal 5.25 x 4.25 = 22.33 mm²);
 Hot yield at 343°C: 270 MPa(strip longitudinal 5.35 x 4.10 = 21.96 mm²);
 Hot yield at 538°C: 185 MPa(strip longitudinal 5.65 x 4.20 = 23.75 mm²)

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 REMANIMATE 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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INSPECTION CERTIFICATE - EN 10204: 2004 / 3.1

No: I 4341 Date: 31.05.2022	Manufacturer's mark:	Customer Order No.: 161	PL: 0790
CUSTOMER: NIMFA-COM SRL			
Specification: PED 2014/68/EU + EN10210-1:06/ EN10210-2:19/ EN 10216-2:13/ EN 10216-1:13		Dimensions: 88.9 x 4 x 6 000+100/-0 mm Steel: S355J2H / P265GH TC1 / P265TR2	
Description: Hot rolled seamless steel pipes with bevelled ends; unprotected; marking by painting at one end: manufacturer's mark, standard, steel grade, heat no, LOT, mill inspector no. 5, technical control sign			
Heat No.: R58462		Steel melt and rolled in ROMANIA	
Quantity delivered	Pcs.	Length - m	Weight- Kg
	74	444.00	3850

Ladle Chemical Analysis [%]

C	Mn	S	P	Si	Ni	Cr	Mo	Cu	Al	Nb	Ti	V	CE
0.19	1.22	0.003	0.010	0.19	0.09	0.06	0.03	0.18	0.025	0.001	0.001	0.002	0.430

Mechanical Properties

TENSILE TEST (EN ISO 6892-1) - at room temperature- Test Specimen / Strip-longitudinal			Rp0.2 N/mm ²	Rm N/mm ²	A %
Dimension (mm): 15.25 x 4.25			411	537	31
Section (mm ²): 65.16					
Length - (Lo) (mm): 45					
Drift expanding test (EN ISO 8493)	Flattening test (EN ISO 8492)	Charpy V - Notch (EN ISO 148-1)	Ring tensile test (EN ISO 8496)		
OK	OK	-	-		
Heat treatment: normalized during hot rolling process with temperature between 880-940°C Hydraulic test pressure - 70 bar for 5 sec: OK			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

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

CE	
0036-CPR-M-008-2007	
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: Impact strength: Weldability: Durability: Dangerous substance: No performance determined	expressed as indicated in the DoP

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Manufacturer: ArcelorMittal Tubular Products Roman S.A. Stefan cel Mare, 15A/1, 611038 Roman, Neamt County, Romania		INSPECTION CERTIFICATE according to EN 10204/2005				Page 1/2 B 22002/2 08.06.2021		 ArcelorMittal	
Buyer: S.C. NIMFA-COM S.R.L.		Tevi din otel fara sudura laminate la cald				Total weight: 6.270 tons - lbs	Total Length: 100.57 meters - feet	Pieces 10	Bundles 1
Buyer's reference: Contract 10002846		Standard: API 5L ED.46-2018/PSEL1, ASTM A106/A 106M-2019a, ASME SA106/SA 106M-2019, EN 10216-2-2013+A1-2019,							
		Dimensions: 323.90 x 8.00 mm		Schedule:		Length: 5.00 - 13.00 m			
Item	Item Client	Hydro Test:	Bar	PSI	MPa	Time(sec)	Steel Grade:	B/P265GH1C1	
8	-		139	-	13.9	5			
						Bill: 5386	Transport: MH.71.MFB-MH.28.MFB		

Chemical Analysis(%)

Heat	Bulletin No.	Product Req.	Max	C	Mn	Si	S	P	Cr	Ni	Cu	Al	Mo	V	Nb	Ti	B
				Min	-	0.29	-	-	-	-	-	-	-	0.020	-	-	-
464876		Heat analysis	0.15	0.84	0.18	0.005	0.009	0.11	0.10	0.13	0.025	0.02	0.003	0.001	0.002	0.001	0.0001
464876	21-476	Product analysis	0.14	0.85	0.18	0.004	0.010	0.11	0.10	0.12	0.027	0.02	0.002	0.001	0.002	0.002	0.0002
464876	21-476	Product analysis	0.14	0.84	0.18	0.004	0.010	0.11	0.10	0.12	0.027	0.02	0.002	0.001	0.002	0.002	0.0002

Chemical Analysis(%)

Heat	Bulletin No.	Product Req.	Max	Nb + V		Nb + Ti + V		Cr + Mo + Ni + Cu + V		Cr + Mo + Ni + Cu	
				Min	-	-	-	-	-	-	-
464876		Heat analysis	0.004	0.006	0.006	0.363	0.360				
464876	21-476	Product analysis	0.003	0.005	0.352	0.350					
464876	21-476	Product analysis	0.003	0.005	0.352	0.350					

$$CE_{pcm} = C+Si/30+Mn/20+Cu/20+Ni/60+Cr/20+Mo/15+V/10+5B$$

$$CE_S = C+Mn/6$$

$$CE_{nw} = C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15$$

Tensile Test

Heat	Orientation	Length		Width/Diameter		Thickness		Section		Mechanical test Bulletin No.	YS MPa	YS (PSI:1000)	UTS MPa	UTS (PSI:1000)	E %	YS/UTS max: -
		mm	inch	mm	inch	mm	inch	mm ²	inch ²							
464876	Longitudinal Flat	50.8	-	40.00	-	8.10	-	324.0	-	21-1603	339.00	-	495.00	-	39.80	0.68
464876	Longitudinal Flat	-	-	20.00	-	8.20	-	164.0	-	21-1107	340.90	-	493.20	-	36.00	0.69

We state on our sole responsibility that the delivered products are in conformity with the order requirements.

Quality Control Representative

Manufacturer: ArcelorMittal Tubular Products Roman S.A. Stefan cel Mare, 15A/1, 611038 Roman, Neamt County, Romania		INSPECTION CERTIFICATE according to EN 10204/2005				Page 2/2 B 22002/2 08.06.2021		 ArcelorMittal	
Buyer: S.C. NIMFA-COM S.R.L.		Tevi din otel fara sudura laminate la cald				Total weight: 6.270 tons - lbs	Total Length: 100.57 meters - feet	Pieces 10	Bundles 1
Buyer's reference Contract 10002846		Standard: API 5L ED.46-2018/PBL1, ASTM A106/A 106M-2019a, ASME SA106/SA 106M-2019, EN 10216-2-2013+A1-2019,							
		Dimensions: 323.90 x 8.00 mm		Schedule:		Length: 5.00 - 13.00 m			
Item	Item Client	Hydro Test:	Bar	PSI	MPa	Time(sec)	Steel Grade: B/P265GH1C1		
8	-		139	-	13.9	5			

Technological/Microstructure Test

Heat	Flattening Test Bulletin No.	Flattening Test
464876	21-2066	OK

Heat

Heat	Pieces	Length (m)	Weight (kg)
464876	10	-	-

Remarks Ţevile sunt in conformitate cu „ DIRECTIVA PED 2014-68-EU/15.05.2014, ANNEX 1, SECTION 4.3.

"Issued in agreement with TÜV SÜD Industrie Service GmbH (07.2008)"

"QS approved acc. to PED, Annex I, Para. 4.3 by Notified Body 0036"

"(Certification no. DGR-0036-QS-W 361/2008/MUC)"

Marcaj conform noimei si cerinta specificata. Livrare pachete.

Încercările mecanice și compoziția chimică corespund conform buletinelor.

Ţevile au fost livrate normalizate din temperatura de sfârșit de laminare (880-1000°C).

Ţevile au fost controlate nedistructiv, pe corpul țevii: examinare ultrasonica Le+Li (12.5%)-satisfacator.

Capetele țevilor au fost controlate ultrasonic Le+Li (12,5 %)-satisfacator.

The products was manufactured, sampled, tested, marked and inspected in accordance with the Standards, the supplementary requirements, and any other requirements designated in the purchase order, and has been found to meet such requirements.

We state on our sole responsibility that the delivered products are in conformity with the order requirements.

Quality Control Representative

**Doina
Nistor**

Digitally signed
by Doina Nistor
Date: 2021.06.09
14:26:16 +03'00'



Karadantlilar Mah. Cirdulu Cad. No: 82, 41140, PK334 Başiskele KOCAELI / TÜRKİYE
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petekboru.com.tr info@petekboru.com.tr

MILLTEST CERTIFICATE
EN 10204 3.1

Date/Tarih : 6.12.2022
Certificate/Sertifika No : 5397

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

Standart No/Norm: TS EN 10217-5

Order No-LC No/Sipariş No: 6478

Pipe Type/Boru Tipi: SAWH

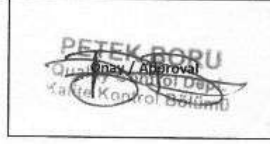
Item Pos. Sıra No:	Dimensions OdxWxL Ölçüler	Pieces Adet	Total Length Metre
1	426,00 X 8,80	9	108,00
2	508,00 X 8,80	5	60,00
3	426,00 X 10,00	9	108,00
4	1016,00 X 10,00	2	24,00

HT bar/sec	BD	GBT	NDT	VD	US
70/5	30	OK	OK	OK	OK
57/10	30	OK	OK	OK	OK
46/10	30	OK	OK	OK	OK
37/10	30	OK	OK	OK	OK

Item Pos. Sıra No:	Bant N° - Heat No Döküm No:	V	Cu	Ni	Cr	Mo	Al	Nb	Ti	S	P	Mn	Si	C	Steel Grade	Temp.	Material			Weld		
		X100														Kalite	Sıcaklık °C	Re(N/mm ²)	Rm(N/mm ²)	A (%)	Re(N/mm ²)	Rm(N/mm ²)
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 °c	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	9,3	P235GH TC1	23 °c	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	18,5	15,7	P265GH TC1	23 °c	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	15,7	P265GH TC1	23 °c	432,6	560,2	35,3	453,22	590,6	25,3

OD: Dış Çap / Outside Diameter
WT: Et Kalınlığı / Wall Thickness
BD: Havşa Açısı / 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

