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Draganesti Str. 30, Slatina, jud. OLT, Romania 230119

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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: I7744 Date: 06.12.2022	Manufacturer's mark:	Customer Order No.: 183	PL: 1611
CUSTOMER: NIMFA-COM SRL			
Specification: EN 10210-1:06/ EN 10210-2:19/ EN 10216-3:13/ EN 10216-2:13/ EN 10216-1:13		Dimensions: 48.3 x 4 x 6 000+100/-0 mm Steel: S355J2H/ P355NL1 TC1/ 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.: R59546		Steel melt and rolled in ROMANIA	
Quantity delivered	Pcs.	Length - m	Weight- Kg
	61	366.0	1628

Ladle Chemical Analysis [%]

C	Mn	S	P	Si	Ni	Cr	Mo	Cu	Al	Nb	Ti	V	CE
0.17	1.19	0.003	0.014	0.25	0.09	0.10	0.02	0.24	0.033	0.001	0.001	0.002	0.415
Cr+Cu+Mo+Ni=0.45					Nb+V=0.003			Nb+V+Ti=0.004			N=0.009		

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): 15.65 x 4.20			396	542	32
Section (mm ²): 67.12					
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 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 Barbuлесcu



MILL INSPECTOR

Eng. Constantin Lupu



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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.

CE	
0036-CPR-M-008-2007	
TMK-ARTROM S.A. Draganesti Street, No.30, 230119, SLATINA, OLT, ROMANIA 22	
No. 6-5E / CPR 18-10-22	
EN 10210-1:2006	
S355J2H / 1.0576	
intended to be used in metal structures or in composite metal and concrete structures	
Tolerances:	expressed as indicated in the DoP
Elongation:	
Tensile strength:	
Yield strength:	
Impact strength:	
Weldability:	
Durability:	
Dangerous substance: No performance determined	



ARTROM STEEL TUBES S.A.

Draganes, Iasi, Romania, jud. OLT, Romania 230119
 Tel: +40 (0) 238 434640, 434641 Fax: +40 (249) 434330, 437288
 E-mail: office.siauna@artrom.com www.artrom.com
 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 1261 Date: 16.02.2024	Manufacturer's mark :	Customer Order No.: 276/260	PL: 0204
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CUSTOMER: NIMFA-COM SRL

Specifications: API 5L 46 th Ed. April 2018 ASTM A106-19: ASME SA-19 ASME B36.10M-18 EN 10216-2: 13 (opt.14);	Dimensions: 88.9 x 4 x 12 000 +100/-0 mm Steel, PSL: Gr. B PSL1/ Steel: Gr. B / P265GH TC1
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Description: Hot rolled seamless steel pipes with bevelled ends; unprotected; marking by painting: ARTROM, standard, dimensions, steel grade, SMLS, heat no., LOT, LENGTH (m), mill inspector no. 5, technical control sign /standard, steel grade, 8.38 Kg/m, 3", TEST PRESSURE 21.5 MPa

Heat No.: A57720	Lot:468007	Steel melt and rolled in Romania	
Quantity	Pcs	Length m	Weight kg
	44	528.00	4412

Ladle Chemical Analyse (%)

C	Mn	S	P	Si	Ni	Cr	Mo	Cu	Al	Nb	Ti	V	B
0.19	1.08	0.003	0.014	0.24	0.07	0.05	0.01	0.25	0.024	0.002	0.001	0.003	0.0003
Cr+Cu+Mo+Ni: 0.38		V+Nb: 0.005		V+Nb+Ti: 0.006		CE=C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15=0.404							

Product Chemical Analyse (%)

C	Mn	S	P	Si	Ni	Cr	Mo	Cu	Al	Nb	Ti	V	B
0.19	1.07	0.006	0.017	0.23	0.07	0.05	0.01	0.27	0.022	0.002	0.002	0.002	0.0003
0.19	1.09	0.005	0.017	0.23	0.07	0.05	0.01	0.27	0.022	0.001	0.001	0.002	0.0003

Mechanical Properties

TENSILE TEST (1. ASTM A370 / 2. EN ISO 6892-1)		Rp0.2	Rt0.5	Rm	A
- at room temperature- Test Specimen / Strip - Longitudinal		N/mm ²	N/mm ²	N/mm ²	%
Dimension-Specimen (mm): 1. 19.25 x 4.25 / 2. 15.25 x 4.25		1. -	404	536	32
Section-Specimen (mm ²): 1. 82.52 / 2. 65.16					
Length-Specimen (Lo) (mm): 1. 50.8 / 2. 45		2. 410	-	542	31

Heat treatment: normalized during hot rolling process with temperature between 880 ^o -940 ^o C and cooled in still air Hydraulic test pressure: (ASTMA530): 21.5 MPa for 5 sec.: OK Flattening test (EN ISO 8492): OK Drift expanding test (EN ISO 8493): OK	Charpy V- Notch (ASTM A370) KV/Longitudinal 25 x 10 [mm] 31 (32; 32; 28) J (-20 ^o C) KV _o /Longitudinal 10 x 10 [mm] 123 (128; 128; 112) J (-20 ^o C)	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
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Visual inspection and dimensional check: OK
 NO WELD REPAIR ON HEREBY CERTIFIED TUBES
 The manufacturer of pipes is certified in acc. with ISO 9001:2015, 14001:2015 and ISO 45001:2018
 The material "not contain intentional additions of elements such as lead, selenium, or sulphur to improve machinability"

Our tubes are rolled from steel with low carbon footprint, carefully melted in our own Romanian facilities only by recycling the ferrous scrap.

Our products mentioned on this document do not incorporate steel products originating in Russia, fully complying with the Regulation (EU) No 833/2014

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

MILL INSPECTOR
 Eng. Constantin Lupu

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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.

Manufacturer:
ArcelorMittal Tubular Products Roman S.A.
Stefan cel Mare, 15A/1, 611038 Roman, Neamt
County, Romania

Buyer: S.C. NIMFA-COM S.R.L.

INSPECTION CERTIFICATE 3.1

according to EN 10204/2005

Page 1/3
B 32227/A
17.07.2025
ArcelorMittal

Total weight: 1.419 tons		Total Length: 42.93 meters		Pieces/Bundles: 4	
- lbs		- feet			
<p>Standard: EN 10216-1-2014, EN 10216-2-2013+AI-2019, EN 10210-2-2019, EN 10210-1-2006;</p>					
<p>Dimensions: 219.10 x 6.30 mm Schedule: -</p>					
Hydro Test: 70 MPa		PSI: 1000		Time(sec): 5	
Item: 10		Item Client: -		Steel Grade: P235GHTCI/P265GHTCI/P235TRI/P235TR2/S275IOH/S235JRH	
Contract 10003434		BIN: 1000021514		Transport: BZ-16+PIR/BZ-17-NOG	

Tevi din otel fara sudura laminate la cald

Chemical Analysis(%)

Heat	Bulletin No.	Product Req.	Max	Min	C	Mn	Si	S	P	Cr	Ni	Cu	Al	Mo	V	Nb	Ti	N
					0.16	1.20	0.33	0.010	0.025	0.30	0.30	0.50	-	0.08	0.020	0.010	0.030	0.0090
2501031		Heat analysis	0.14	0.85	0.22	0.001	0.02	0.01	0.01	0.033	0.007	0.001	0.002	0.0033				
2501031	25-256	Product analysis	0.15	0.86	0.22	0.001	0.01	0.01	0.033	0.006	0.001	0.002	0.0036					
2501031	25-256	Product analysis	0.15	0.87	0.23	0.001	0.01	0.01	0.033	0.006	0.001	0.002	0.0034					

Chemical Analysis(%)

Heat	Bulletin No.	Product Req.	Max	Min	Cr + Mo + Ni + Cu		CE _{IIW}
					0.700	0.37	
2501031		Heat analysis	0.034	0.29	0.034	0.29	0.30
2501031	25-256	Product analysis	0.030	0.30	0.030	0.30	0.30
2501031	25-256	Product analysis	0.030	0.30	0.030	0.30	0.30

CE_{Epcm} = C+Si/30+Mn/20+Cu/20+Ni/60+Cr/20+Mo/15+V/10+5B CE_{IIW} = C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15

Tensile Test

Heat	Orientation	Length		Width/Diameter		Thickness		Section		Mechanical test Bulletin No.	YS (PSI:1000) MPa	YS (PSI:1000)	UTS (PSI:1000) MPa	UTS	E %	YS/UTS max: -
		mm	inch	mm	inch	mm	inch	mm ²	inch ²							
2501031	Longitudinal Flat	-	-	20.00	-	6.70	-	134.0	-	25-816	342.50	-	497.00	-	37.60	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 3.1 according to EN 10204/2005		Page 2/3	
Buyer: S.C. NIMFA-COM S.R.L.				B 32227/1 17.07.2025	
Tevi din otel fara sudura laminate la cald		Total weight: 1.419 tons - lbs		Total Length: 42.93 meters - feet	
Standard: EN 10216-1-2014; EN 10216-2-2013+A1:2019; EN 10210-2-2019; EN 10210-1-2006;		Length: 10.00 - 12.00 m		Pieces Bundles 4	
Dimensions: 219.10 x 6.30 mm		Schedule: -		Steel Grade: P235GH/TC1/P265GH/TC1/P235TR1/ P235TR2/S275JOH/S235JRH	
Hydro Test: -		Bar 70		MPa 7.0	
Item 10		Item Client -		Time(sec) 5	

Impact Test

Heat	Impact Test Bulletin No.	Orientation	Size (mm)	Temp. (°C)	Req. KV (min. J)	KV values (J)	Req. Avr. (min. J)	Avr. fracture energy (J)	KCU min.-l/cm² T:°C	Shear Area min. %	Lateral Expansion min. mm
2501031	25-2310	Longitudinal	10x5x55	0	-	186	200	212	40.0	90	0.78
2501031	25-2311	Longitudinal	10x5x55	10	-	174	190	206	28.0	85	0.73

Yield Strength Test

Heat	Yield Strength Bulletin No.	T °C	YS (MPa)	YS (PSI):1000
2501031	25-402	250	276.20	-

Technological/Microstructure Test

Heat	Flattening Test Bulletin No.	Flattening Test
2501031	25-1671	OK

Heat

Heat	Pieces	Length (m)	Weight (kg)
2501031	4	-	-

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

Quality Control Representative

INSPECTION CERTIFICATE 3.1

according to EN 10204/2005

Manufacturer: ArcelorMittal Tubular Products Roman S.A. Stefan cel Mare, 15A/1, 611038 Roman, Neamt County, Romania	Page 3/3 B 32227A 17.07.2025 ArcelorMittal	Total weight: 1.419 tons - tbs Total Length: 42.93 meters - feet Pieces: 4 Bundles:
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Tevi din otel fara sudura laminate la cald	EN 10216-1-2014; EN 10216-2-2013+A1-2019; EN 10216-2-2019; EN 10210-1-2006;	
Standard:	EN 10216-1-2014; EN 10216-2-2013+A1-2019; EN 10216-2-2019; EN 10210-1-2006;	
Dimensions: 219.10 x 6.30 mm	Schedule: -	
Hydro Test: 70 MPa	PSI: 1015	Time(sec): 5

Item: 10	Bar: 70	Steel Grade: P235GH/TC1/P265GH/TC1/P235TR1/P265TR2/S275J0H/S275J0H
Item Client: -	PSI: -	P235TR2/S275J0H/S235JRH

Remarks:

MARKING ON THE PIPES BY PAINTING:

ARCELORMITTAL TUBULAR PRODUCTS ROMAN - - 219.10 - 6.30 -

EN 10216-2/EN 10210-1/2- P235GH/TC1/P265GH/TC1/P235TR1/P265TR2/S275J0H/S275J0H

- Length(m) + Heat no. ... + CTC die stamping + **CE** 0036-25-0036-CPR-M 118.2019

Tevile 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)”

Otelul este complet calmat, degazat in vid si produs in cuptor electric, sursa Jindal Shadeed Iron & Steel LLC Sohar Port, Plot - 12, PO Box 404, PC 322 Falaj Al Qabail, Sohar, Sultanate of Oman .

Inspectie vizuala/ dimensionala fara obiectii.

Marcajul conform normei si cerinta specificata . Livrare vrac.

Încercările mecanice și compoziția chimică corespund conform buletinelor.

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

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.

	CE 0036	
	ARCELORMITTAL TUBULAR PRODUCTS ROMAN S.A.	
	Stefan cel Mare, 15A/1, 611038 Roman, Neamt County, Romania	
	25 0036-CPR-M 118.2019	
	EN 10210-1-2006	
	Steel hollow sections for building and civil engineering	
	Product designation : S235JRH	
	Dangerous substance As: Less than 0.2 ppm	
	Durability : NPD	

(A04) 	(A01) Nazwa wytwórcy / Manufacturer's Works / Herstellerwerk: (A05) Wystawiający dokument / Document's originator / Aussteller der Bescheinigung: ALCHEMIA S.A. 00-807 Warszawa Aleje Jerozolimskie 92 Oddział WALCOWNIA RUR ANDRZEJ 47-120 Zawadzkie ul. Lubliniecka 12 www.alchemiasa.pl	tel: (+48) 77 45 61 100 							
(A02) Rodzaj dokumentu kontroli / Type of Inspection document / Art der Prüfbescheinigung: Świadectwo Odbioru / Inspection Certificate / Abnahmeprüfzeugnis: 3.1 wg PN-EN 10204:2006		(A03) Numer dokumentu / Document number / Bescheinigungsnummer: 2362 / E / 2024							
(A06) Odbiorca / Addressee / Abnehmer: NIMFA-COM S.R.L. 031827 BUCURESTI SECTOR 3 RACARI 12A, BL.43, SC.A, ET.4, AP.		(A07) Nr zamówienia Klienta / Kontrakt / Purchaser's order / Contract / Bestellung Nr: 1124090046 W2401109							
(B01) Wyrób/Product/Erzeugnis: Rury stalowe bez szwu / Seamless steel pipes / Nahtlose Stahlrohre		(A08) Nr zamówienia zakładu (potwierdzenie) / Works confirmation / Vertragsnummer: 5110905201/2024							
(B02) (Gatunek / Material designation / Werkstoff): P265GH		(B03) Warunki techniczne odbioru / Test requirements / Prüfbedingungen: EN 10216-2 TC1, PED 2014/68/UE,							
(C70) Proces wytwarzania stali / Steelmaking process / Stahlherstellungsverfahren	Piec elektryczny lukowy, ciągłe odlewanie stali / Electric arc furnace, Continuous Casting. / Elektroofen, Strangguss	Stal uspokojona / Fully killed / Beruhigter Stahl							
(B07) Identyfikacja wyrobu / Product Identification / Identifizierung des Erzeugnisses:									
Nr partii Lot Los	Nr wytopu Heat No. Schmelze Nr.	Nr zgłoszenia Works Id./No. Betriebs Id. Nr	Wymiar Dimensions Abmessungen [mm]	Waga Weight Gewicht [kg]	Długość Length Länge [m]	Liczba sztuk Number of Pieces Stückzahl	Długość jednost. Unit Length Einheitslänge [mm]	Stempel kontrolera Inspector's stamp Stempel der/des Abnahmebeauftragten	Nr AWIZA
479G3	138391	479G3/23	31.8 x 3.2	540	232	19	12000+12300mm	NJ1	
Razem / Total / Gesamt				540	232	19			
Huta / Steelworks / Stahlwerk	Cognor S.A. / Gliwice-Labędy	Polska / Poland / Polen	Kraj wytworzenia rur: Polska / Country of pipe manufacture: Poland / Land der Rohrherstellung: Polen						
(B04) Stan dostawy / Product delivery condition / Lieferzustand:		Goręcownicowe / Hot rolled / Warm gewalzt							+N
(B06) Znaki trwałe na materiale lub przywieszce zgodnie z potwierdzeniem zamówienia / Durable marks on the material or on the label with contract confirmation / Markierung auf dem Material oder auf dem Etikett gemäß Auftragsbestätigung.									Feste
(Z04/Z05) Cechowanie znakiem CE i inne dopuszczenia / CE marking and other entitlements / CE-Zeichen und andere Zulassungen:									
Producent materiałów posiada oceniony system jakości w odniesieniu do materiałów według zał. 1 pkt. 4.3 Dyrektywy PED 2014/68/UE przez TÜV NORD Systems GmbH & Co. KG, jednostka notyfikowana nr 0045, nr certyfikatu 07/202/9120/WZ/2548/21									
/ The Producer has a reviewed quality system in reference to materials acc. annex 1, sec 4.3 Directive PED 2014/68/UE by Notified Body TÜV NORD Systems GmbH & Co. KG, reg.-no. 0045, certificate no. 07/202/9120/WZ/2548/21									
/ Der Hersteller hat ein beurteiltes Qualitätssystem in Bezug auf die Werkstoffe nach dem Anh. 1, Kap. 4.3 Direktive 2014/68/UE durch TÜV NORD Systems GmbH & Co. KG notifizierte Stelle, Kenn-Nr. 0045, Zertifikat Nr. 07/202/9120/WZ/2548/21									
Oddział Certyfikowany na zgodność z normą ISO 9001									
Nr auta / Car No / Auto Nr : GJ20DYS / GJ46DYS						Strona / Page / Seite : 1 / 2			

(Form.: WRA-16 styczeń-2024)

(C71) Skład chemiczny / Chemical composition / Chemische Zusammensetzung [%]													(D71-D90) - Analiza kontrolna / Test analysis / Kontrollanalyse [%]						
(C71-C90)* - Analiza wtopowa / Heat analysis / Schmelzanalyse [%]													(C32) Pomiar twardości / Hardness test / Härteprüfung						
Nr wytopu / Heat No. / Schmelze Nr	C	Mn	Si	P	S	Cr	Ni	Mo	Cu	Ti	Al	N	Nb	B	V	Sn	AS	CEV	Bq/Kg
(C71-C90)* Wyt. / smel.	138391	0,11	0,55	0,22	0,015	0,03	0,07	0,010	0,12	0,0020	0,028	0,007	0,0020	0,0002	0,0020	0,006	0,006	0,22	< 100

(C00) Własności mechaniczne / Mechanical properties / Mechanische Eigenschaften													(C32) Pomiar twardości / Hardness test / Härteprüfung		
(PN-EN ISO 6892-1:2020-05 B):													(PN-EN ISO 148-1:2017-02)		
Kier. próbki do badań / Direction of test piece / Probenrichtung = L													Kier. próbki do badań / Direction of test piece / Probenrichtung = L		
Temp. (°C) = 20													Temp. (°C) =		
R _{eH} [MPa]													Wartość średniej / Mean Value / Mittelwert		
375													Jednost. / Unit / Einheit		
R _m [MPa]													Temperatura (°C)		
465													Wartość średnia / Mean value / Mittelwert		
A ₅ [%]													HRB		
34.5															

(201) Producent deklaruje, że dostarczone wyroby są zgodne z warunkami zamówienia. / The producer guarantees that delivered goods are in accordance with the conditions of the order. / Der Hersteller bestätigt, dass die gelieferten Erzeugnisse den Bedingungen aus der Bestellung entsprechen.

(C53) Próba spłaszczenia / Flattening test / Ringfaltversuch : Wynik pozytywny / Positive result / Positives Ergebnis: +

(C54) Próba rozłączania pierścienia / Ring expansion test / Ringaufdornversuch : Wynik pozytywny / Positive result / Positives Ergebnis: +

(D03) Badania wiroprądowe zamiast próby szczelności 100% / Eddy-current inspection instead of hydraulic test 100% / Wirbelstromprüfung statt dichtigkeitsprobe 100% (wg PN-EN ISO 10893-1:2011) : Wynik pozytywny / Positive result / Positives Ergebnis: +

(D06) Kontrola wizualna i wymiarowa / Visual inspection and checking of dimensions / Besichtigung und Messprüfung : Wynik pozytywny / Positive result / Positives Ergebnis: +

Numerы odebranych rur / Numbers of accepted tubes / Nummer der abgenommenen Rohre

(C11) R_{eH} (R_m) - Yield Strength

(C12) R_m - Tensile Strength

R_{10,5} / R_m - Ratio

(C13) A₅₀ - Elongation

+ Załącznik / Annex

(Form.: WRA-16 stycznia 2024)

(202) Inspektor zakładowy / Works Inspector / Abnahmebeauftragter

Specialista/Inspektor
Anna Zyzik

Zawadzkie, dnia : 2024.09.26

(D71-D90)* - Analiza wytopowa / Heat analysis / Schmelzanalyse [%]

(C71-C90)* - Analiza wytopowa / Heat analysis / Schmelzanalyse [%]

(D71-D90)* - Analiza wytopowa / Heat analysis / Schmelzanalyse [%]

Nr wytopu / Heat No. / Schmelze Nr	C	Mn	Si	P	S	Cr	Ni	Mo	Cu	Ti	Al	N	Nb	B	V	Sn	As	CEV	Bq/ki
142559	0,13	0,55	0,18	0,016	0,005	0,04	0,07	0,010	0,11	0,0020	0,025	0,008	0,0010	0,0002	0,0020	0,007	0,008	0,24	< 100
Własności mechaniczne / Mechanical properties / Mechanische Eigenschaften (PN-EN ISO 6892-1:2020-05 B): Kier. próbki do badań / Direction of test piece / Probenrichtung = L Temp. (°C) = 20 R _m [MPa] A ₅ [%] 426 / 426 477 / 477 35.0 / 34.5 R _{p0.2} [MPa] Temp. (°C) =																			
(C02) Kier. próbki do badań / Direction of test piece / Probenrichtung = L (C03) Temperatur (°C) = 20 (C11) R _{eH} [MPa] R _m [MPa] 426 / 426 477 / 477 (C12) Temperatur (°C) = (C13) R _{10.5} / R _m - Ratio A ₅₀ 35.0 / 34.5 (C14) Temp. (°C) = (C15) R _{p0.2} [MPa] A ₅ [%] 426 / 426 477 / 477 35.0 / 34.5																			

Producent deklaruje, że dostarczone wyroby są zgodne z warunkami zamówienia. The producer guarantees that delivered goods are in accordance with the conditions of the order. / Der Hersteller bestätigt, dass die gelieferten Erzeugnisse den Bedingungen aus der Bestellung entsprechen.

- Próba splaszczania / Flattening test / Ringflattversuch: Wynik pozytywny / Positive result / Positives Ergebnis: +
- Próba rozciągania pierścienia / Ring expansion test / Ringaufdehnversuch: Wynik pozytywny / Positive result / Positives Ergebnis: +
- Badania wirtoprowe zamiast próby szczelności 100% / Eddy-current inspection instead of hydraulic test 100% / Wirbelstromprüfung statt dichtigkeitsprobe 100%: Wynik pozytywny / Positive result / Positives Ergebnis: +
- Kontrola wizualna i wymiarowa / Visual inspection and checking of dimensions / Besichtigung und Messprüfung: Wynik pozytywny / Positive result / Positives Ergebnis: +

Nr próbki / Sample No. / Probe Nr. 0819/24

Inspektor zakładowy / Works inspector / Abnahmebeauftragter: Anna Zyzik

Zawadzkie, dnia: 2024.09.27

+Załącznik / Annex

R_{eH} (R_{10.5}) - Yield Strength

R_m - Tensile-Strength

R_{10.5} / R_m - Ratio - Elongation

A₅₀

m.: WRA-16 styczeń-2024



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 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: 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 laminat in Romania/Steel melt and rolled in ROMANIA		
Cantitatea livrata/ Quantity delivered	Bucati / Pcs.	Lungime/Length - m	Greutate / Weight- Kg	
	23	276.0	1966	

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	0.12	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+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	0.13	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	0.22	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 N/mm ²	Rt0.5 N/mm ²	Rm N/mm ²	A %
Tip epruveta / Test Specimen // Fasie - longitudinal / Strip - longitudinal					
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 dom 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			Hardness HRB: 76-77		
Heat treatment: normalized during hot rolling process			Hardness HRC max 22 (acc to NACE MR0175/ISO 15156)		
Melting process: electric arc furnace, fully killed			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 Barbuлесcu

MILL INSPECTOR

Eng. Constantin Lupu

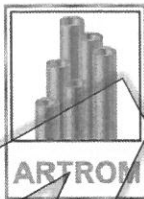
"Issued in agreement with TÜV SÜD Industrie Service GmbH (02/98)"

"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.

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.



ARTROM STEEL TUBES S.A.

Draganesti Str. 30, Slatina, jud. OLT, Romania 230119
 Tel: +40 (249) 434640, 434641 Fax: +40 (249) 437288, 430055
 E-mail: office@artrom.com www.artrom.com
 EUID: ROONRC.J1991000009283; J1991000009283; VAT No. RO 1510210/1992
 Subscribed and Paid Share Capital: 291.587.538,34 lei

INSPECTION CERTIFICATE - EN 10204: 2004 / 3.1

No.: I 6238 Date: 12.09.2025	Manufacturer's mark:	Customer Order No.: 385	PL: 1057
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Specifications: API 5L 46 th Ed., April 2018 (for Line Pipe) ISO 3183:19; EN 10220:02; EN 10216-2:24; DIN 17175: 79; PED 2014/68/EU + AD 2000W4	Dimensions: 57 x 4 x 12000+100/-0 mm Steel, PSL: Gr. B PSL1 / Steel: P265GH TC1 / St 45.8 I
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Description: Hot rolled seamless steel pipes; unprotected; marking by painting at one end: ARTROM, API Spec 5L/ISO3183, dimensions, steel grade, SMLS, heat no., LOT, LENGTH (m), mill inspector no. 5, technical control sign // standard, steel grade; marking at both ends: manufacturer's mark, heat no.

Heat No.: R60637	LOT: 512820	Country of manufacture: Romania/ Country of melt & pour: Romania	
Quantity	Pcs	Length m	Weight kg
	52	625.40	3274

Ladle Chemical Analyse (%)

Heat no.	C	Mn	S	P	Si	Ni	Cr	Mo	Cu	Al	Nb	Ti	V	B
R60637	0.13	0.52	0003	0011	0.20	0.09	0.09	0.03	0.23	.020	.001	.001	.001	0.0004

Nb+V: 0.002 V+Nb+Ti: 0.003 CEV = 0.262

Product Chemical Analyse (%)

Lot no.	C	Mn	S	P	Si	Ni	Cr	Mo	Cu	Al	Nb	Ti	V	B
512820	0.12	0.53	.003	.011	0.20	0.09	0.08	0.03	0.22	.020	.004	.001	.003	0.0004
512820	0.12	0.53	.002	.012	0.20	0.09	0.08	0.03	0.22	.020	.003	.002	.003	0.0004

CEV: 1) 0.252 / 2) 0.252

Mechanical Properties

TENSILE TEST (ASTM A370) - at room temperature- Test Specimen / Strip - Longitudinal	Rt0.5 MPa	Rm MPa	A %	Charpy V- Notch (ASTM A370)
Dimension-Specimen (mm): 19.40 x 4.05 Section-Specimen (mm ²): 80.34 Length - Specimen (Lo) (mm): 50.8	366	461	37	
TENSILE TEST (EN ISO 6892-1) Test Specimen / Strip - Longitudinal	Rp0.2 N/mm ²	Rm N/mm ²	A %	Charpy V- Notch (EN ISO 148-1)
Dimension-Specimen (mm): 1. 15.30 x 4.10 / 2. 15.40 x 4.20 Section-Specimen (mm ²): 1. 63.61 / 2. 65.60 Length-Specimen (Lo) (mm): 1. 45 / 2. 45	370 371	466 469	36 37	KV/Longitudinal 2.5 x 10 [mm] 31 (29; 31; 34) J (0°C) KVc/Longitudinal 10 x 10 [mm] 125 (116; 124; 136) J (0°C)

Heat treatment: normalised, temperature between 880°C - 940°C and cooled in still air

Hydraulic test pressure (ASTM A530): 20.6 MPa for 5 sec: OK

Melting process: electric arc furnace, fully killed

Flattening test (EN ISO 8492): OK

Ring expanding test (EN ISO 8495): OK

Visual inspection and dimensional check: OK / NO WELD REPAIR ON HEREBY CERTIFIED TUBES

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

Our tubes are rolled from steel with low carbon footprint, carefully melted in our own Romanian facilities only by recycling the ferrous scrap using 100% certified green electricity.

Our products do not incorporate steel products originating in Russia and Belarus, fully complying with the Regulations (EU) No 833/2014 and 765/2006. Steel melt by ARTROM STEEL TUBES Resita, ROMANIA.

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 IC is digitally signed and sealed by ARTROM STEEL TUBES S.A. IT system.

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.



ALCHEMIA S.A.
Oddział Walcownia Rur Batory
w Chorzowie
 ul. Dyrekcyjna 6
 41-506 Chorzów
 POLAND



(A03) **ŚWIADECTWO ODBIORU No 1201/EXP/24**
CERTIFICAT DE RECEPTION INSPECTION CERTIFICATE
ABNAHMEPRÜFZEUGNIS СЕРТИФИКАТ
 (A02) **Acc. to EN 10204:2004 type 3.1**
 /nr normy/ Strona Page Page Seite Страница 1/2

(A10-A99) **Wytwórca Stali - Fabricant d'acier-Steelmaker-Steel Manufacturer-Stahlhersteller-Производитель стали**
ALCHEMIA S.A. Oddział Stalownia Batory, ul. Dyrekcyjna 6; 41-506 Chorzów

(A06) Zamawiający Acheteur-Customer-Besteller-Заказчик	
(A06) Adres wysyłkowy Adresse-Address-Versandadresse-Адрес получателя	
(A07) Nr zamówienia klienta Numéro de la commande du client Purchaser's order No Kundenbestellnummer No заказа	(A08,09) Nr potwierdzenia No de la commande Manuf. Order No Werksauftragsnummer Приказ №
1124090047/14.10.2024	H2400987/8/6 131877,131878

Wyszczególnienie zamówienia:
 Specification de la commande-Order Specification-Spezifikation der Bestellung-Спецификация заказа

Wyrób i wymagania dodatkowe (stan obr. termicz., mech. itp.) Produit et prescriptions supplémentaires (traitement thermique et l'usage) Product and any supplementary requirements (Heat and mechanical treatment etc.) Erzeugnis und Zusätzliche Anforderungen (therm und mechan. Bearbeitung usw.) Продукта и дополнительные требования (состояние терм. и механообработ. и пр.)	Wymiar wyrobu Dimensions du produit Product dimensions Masse des Erzeugnisses Размер продукта	Oznaczenie stali Désignation de l'acier Steel designation Stahlbezeichnung Марка стали	Wytop Coulée Heat Abstich Плавка	Sztuk Pièces Pièces Stück Штук	mb ft (c. mtr.) c. mtr. l. M. por. m	kg lb (kg) кг
(B01, B03)	(B09)	(B02)	(B07)	(B08)	(B15)	(B13)
Seamless carbon steel pipes acc. to ASTM A106/A106M/19a/ A53/A53M/22/ A530/A530M/18/ ASME SA106/ SA53/SA530/ SEC. II Part. A/23/ EN 10216-2/13+A1/19/ without point - 8.4.1.4 - TC1. Bevelled ends angle 30° with tol. -0/+5° and the width of the root face 0-2mm. Outside diameter tolerances +/-1%. Normalized 920°C/20'. Outside surface lacquered. Raw material and end product of Polish origin. CN code: 7304 39 88 00.	426 x 10 mm 9,11 - 12,16 m	B/P265GH	898394	11	121,16	12433

Kontrolę techniczną powyższego zamówienia przeprowadził Oddział Technicznej Kontroli. Wyniki badań podano niżej.

Le controle technique de la été exécuté par le Service de Controle. Les resultats des essais sont indiqués ci-aprés.
 The technical investigation of this order has been executed by the Works Control. Results of tests are as follows.
 Die technische Prüfung obiger Bestellung wurde von der Fabrikationskontrolle durchgeführt. Die Ergebnisse der Proben sind nachstehend angeführt.
 Технический контроль вышеупомянутого заказа произвел Отдел Технического Контроля. Результат испытания представлен ниже.

1. SKŁAD CHEMICZNY - COMPOSITIO CHIMIQUE - CHEMICAL COMPOSITION - CHEMISCHE ZUSAMMENSETZUNG
 (C71-C92) **ХИМИЧЕСКИЙ СОСТАВ**

Wytop Coulée Heat Abstich Плавка	C	Mn	Si	P	S	Cr	Ni	Cu
heat analysis	0,17	0,93	0,20	0,011	0,008	0,09	0,11	0,23
control analysis	0,17	0,93	0,21	0,011	0,008	0,09	0,11	0,23
control analysis	0,18	0,92	0,20	0,011	0,008	0,08	0,11	0,23
898394	Al.	Ti	Mo	V	Nb			
heat analysis	0,033	0,000	0,03	0,00	0,001			
control analysis	0,030	0,001	0,03	0,00	0,001			
control analysis	0,030	0,001	0,03	0,00	0,001			

2. BADANIA MECHANICZNE - ESSAIS MECANQUES - MECHANICAL TESTS - MECHANISCHE UNTERSUCHUNGEN
МЕХАНИЧЕСКИЕ ИСПЫТАНИЯ

Nr wytopu lub próby No de la coulée ou De l'éprouvette Heat No Or. Tests No Abstich Oder Probe No № плашки или пробы	Rp _{0.2}	Rm	A 2"	Z	Badanie udarności Impact Impact test Kerbschlagprobe Испытание на удар	Twardość Dureté Hardness Härte Твердость	MPa min	
	MPa min	MPa min	% min	%				
	240	415	30,0		(C40,C41,C02)	(C30)		
	acc. to ASTM A370				Wartości pojedyncza Valeurs individuelles Individual values Einzelwerte Едиственный результат (C42)	Srednia Moyenne Mean Mittel Средний (C43)	(C31)	(C50-C69)
(B07,C02,C00) Test size: 1½" 898394/1101 Longitudinal	(C11) 370	(C12) 512	(C13) 36,8	(C50-69)				
	acc. to EN ISO 6892-1							
	Re min	Rm min	A5 % min					
898394/1102 Longitudinal	265	570	23,0					
	368	505	26,2					

3. INNE BADANIA - AUTRES ESSAIS - OTHER TESTS - ANDERE UNTERSUCHUNGEN - ДРУГИЕ ИСПЫТАНИЯ
(D51-D99) (Z04)

BADANIA TECHNOLOGICZNE - ESSAIS TECHNOLOGIQUES - TECHNOLOGICAL TESTS - TECHNOLOGISCHE PRÜFUNGEN
ТЕХНОЛОГИЯ ИССЛЕДОВАНИЯ

Flattening test - positive results

Each pipe has been hydrostatically tested by pressure 7,0 MPa - positive results time 5 s.

Powierzchnię i wymiary zbadano w 100% - Surface et dimensions ont été contrôlés et 100% - Surface and dimensions tested at 100%
Oberfläche und Abmessungen geprüft zu 100% - Наружный осмотр и проверка измерений произведены в 100% - **positive results**

4. BADANIA NIENISZCZĄCE - Essais Non Destructifs - Non Destructive Tests - Zerstörungsfreie Prüfungen - Неразрушающий Контроль (D02-D50)

Numery rur - Le nombre de tubes - Numbers of tubes - Nummern von Röhren - Номера трубок

5. UWAGI DODATKOWE - Additional Remarks - Autres observations - Andere Bemerkungen - Дополнительные примечания (Z05-Z99)
Approved acc. to AD2000-Merkblatt W0 by TÜV NORD Systems GmbH & Co. KG. Certified acc. to Pressure Equipment Directive 2014/68/EU annex I, sec 4.3 by the Certification body for pressure equipment of the TÜV NORD Systems GmbH & Co. KG, reg.-no. 0045, Certificate No 07/203/9120/WP/0888/22 and Certificate No 07/202/9120/WZ/0888/22 and ISO 9001/TÜV Certificate No 04-100 950250-001. The Company has a Quality System for the manufacturer's materials acc. to Pressure Equipment (Safety) Regulations 2016 Cert. No. HPIUK-P1139-023-Q-03-00 is available on www.alchemiasa.pl.

(Z01)Niniejszym potwierdzam, że wyżej wymieniony materiał został zbadany i spełnia warunki potwierdzenia zamówienia - Par la présente je confirme que le matériel susmentionné a été examiné et il remplit les conditions de la confirmation de commande - We hereby certify, that the material described above has been tested and complies with the terms of the order - Es wird bestäetigt, dass das oben genannte Material geprüft wurde und den Bedingungen der Bestellung entspricht - Подтверждаем, что вышеуказанный материал был протестирован и соответствует условиям подтверждения договора

(D01)Cechowanie - Marquage - Marking - Kennzeichnung - Обозначен
Acc. to A106/A53/A530/SA106/SA53/SA530/B/ EN 10216-2/ P265GH - TC1

(D51-D99)Na podstawie wyżej przeprowadzonych prób materiał zwolniono - Sur la base des essais si-dessus le matériel est div-According to the carried out tests the material released - Untersuchungen wurde das Material freigegeben - На основании вышеупомянутых Испытаний признан годным

Kontrola Jakości

Contrôle de Fabrication
Control of Manufacture
Fabrikationskontrolle
Технический контроль

KJ
21/634
(Z03)

Dyrekcja

Direction
Management
Direktion
Дирекция

(Z02)

(Z05)

Za Kierownika
Działu Kontroli Jakości
i Nadzoru Technologicznego

Artur Kupiec

Kierownik
Działu Kontroli Jakości
i Nadzoru Technologicznego

Barbara Czyż

dn. 29.07. 2024 r.

1201/EXP/24

Strona Page Page Seite Страница 2/2



**ALCHEMIA S.A. ul. Aleje Jerozolimskie 92,
00-807 Warszawa
Oddział Rurexpol ul. Trochimowskiego 27
42-207 Częstochowa www.alchemiasa.pl**

22.04.2022
A03/Nr. dokumentu/Document number/Bescheinigungsnummer:
Nr: RXP/775/E/22
A07/Kontrakt / Contract / Vertrag:
R2200169/48/1
B09-B11/Wymiary/ Dimensions/Abmessungen:
**273 mm x 7.1 mm
length: 4.00 m – 12.00 m**
B03/Warunki techniczne odbioru/Testrequirements/Prüfbedinungen:
EN 10216-2:2013

A02/Rodzaj dokumentu kontroli/Type of Inspection document/ Art der Prüfbescheinigung:
ŚWIADECTWO ODBIORU
A08/Specyfikacja / Specification/ Spezifikation: Nr. 31187
A08/ Dokumenty dostawy / Delivery note/ Liefer schein : 36438
Nr. auta/Car no./Auto nr. BZ 14ASD / BZ 16ASD
B01/Wyrób / Product / Erzeugnis:
**Rury stalowe bez szwu fazowane/Seamless steel pipes with bevelled
ends Nahtlose Stahlrohre mit Schweißphase
(Pipes from stock)**

A06/Odbiorca/ Addressee/ Abnehmer
A08/Specyfikacja / Specification/ Spezifikation: Nr. 31187
A08/ Dokumenty dostawy / Delivery note/ Liefer schein : 36438
Nr. auta/Car no./Auto nr. BZ 14ASD / BZ 16ASD

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 gorąco/Hot formed pipes/Warmgeformte Rohre**

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 Thüringen Industrie Service GmbH. Jednostka notyfikowana 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 Notified Body TÜV Thüringen Industrie Service GmbH, reg.-no 0090, certificate no. 0090-151-0871/Der Hersteller hat ein beurteiltes Qualitätssystem in Bezug auf die Werkstoffe nach dem Anh. 1. Kap. 4.3 Direktive PED 2014/68/EU und AD2000-Merkblatt W0 durch In TÜV Thüringen Industrie Service GmbH notifizierte Stelle. Kenn-Nr.0090. Zertifikat Nr. 0090-151-0871

Własności mechaniczne/Mechanical properties/Mechanische Eigenschaften EN ISO 6892-1
Próba uderzeniowa / Impact test / Kerbschlagversuch EN ISO 148-1

C71-C90 Numer wytopu Heat No. Schmelze Nr	C02 Kierunek Próby Direction of test pieces Probenri- chtung	C00/ Nr. próby Sample No. Probe Nr	C11 Granica plasty- czności Yield or Proof strength Streck-order Dehngrenze	C12 Wytrzyma- łość Tensile strength Zugfestig- keit	C13 Wydłużenie Elongation after Fracture Bruchdeh- nung	C02 Kierunek Próby Direction of test pieces Probenri- chtung	C40/C41 Typ próby Szerokość próby Type of test piece,Width of test piece Probenform Probenbreite	C03 Temperatura Temperature Temperatur °C	C42 Wartości pojedyncze Individual values Einzelwerte			C43 Wartość średnia Mean value Mittelwert	C30 Pomiar Twardości Hardness test Härteprüfung Wartość średnia Mean value Mittelwert
									1.	2.	3.		
Wymagania / Requiements / Anforderungen. Korpus rury/Pipe body/Rohrkörper			R _{elt} MPa min. 265	R _m MPa 410 570	A5 % min. 23,0		KV ₂		min. 40J				
921541	L	9515	338	461	23.8	L	10 x 5	0	92	93	82	89	

C70/Sposób wytopu stali / Way of casting./ Ehrschnmelzungsverfahren: EAF + Oxygen Electric Arc Furnace/Stal uspokojona/Fully killed/Beruhigter Stahl
Huta:Steelworks/Stahlwerk: ArcelorMittal Poland S.A.

Numer wytopu Heat No Schmelze Nr	Sztuki Number of piece Stückz- ahl	Długość Length Länge	Waga Weight Gewicht [kg]	C71-C90/ Analiza chemiczna [%] / Chemical Composition [%] / Chemische Zusammensetzung [%]														
				C	Mn	Si	P	S	Cr	Ni	Cu	Al _{tot}	N	Mo	Nb	V	Ti	C _E
921541	9	72.70	3388	0.17	0.95	0.23	0.008	0.003	0.02	0.02	0.06	0.027	0.005	0.001	0.001	0.003	0.000	0.338

Numerы rur zgodnie ze specyfikacją na liście przewozowej nr/Pipe no according to pipe specification on Packing List no/Rohrnummern gemäß Angabe auf Frachtbrief Nr.:31187

Badania / Tests / Prüfung:
Kontrola wizualna i wymiarowa/Visual inspection and checking of dimensions/Besichtigung und Messprüfung:
Próba szczelności/Hydraulic test at pressure/ Dichtigkeitstest 7,0 MPa
Próba spłaszczania/Flatening test/Ringfaltversuch
Badania nieniszczące/Ultrasonic test/Zerstörungsfreie prüfungen: EN ISO 10893-10 (class U2C)
Kontrola gatunku rur 100%/Control in 100% of grade tubes/100% Güte Kontrolle der Rohre

- Wynik pozytywny/Positive results/Pozytives Ergebnis
- Wynik pozytywny/Positive results/Pozytives Ergebnis
- 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 Vereinbarungen bei der Bestellung entspricht.

Badany materiał nie wykazał radioaktywności. Pomiar został wykonany przy użyciu systemu GENIE 2000, produkcyjja 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 gelendet. Die Messung wurde mit dem GENIE-2000-System gemacht. Hersteller: Canberra-Packard.

D01/Rury oznakowane / Pipes Markings / Kennzeichnung
Acc. to: EN10216

Kontrola Jakości/Control of Manufacture
Fabrikationskontrolle

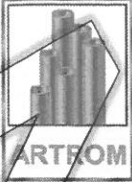
ALCHEMIA S.A.
Oddział Rurexpol
Dział Kontroli Jakości
Rurexpol Branch
Quality Control Department

202/203 Specjalista Kontroli/Works Inspector
Der Werksachverständigen

Specialista
kontrola jakości/ odbioru rur
- Kierownik zespołu
Sebastian Szarka

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

Oddział Rurexpol w Częstochowie



ARTROM STEEL TUBES 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@artrom.com www.artrom.com
 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 3668 Date: 22.05.2023	Manufacturer's mark :	Customer Order No.: 225	PL: 0671
Specification: EN10210-1:06/EN10210-2:19/ EN 10216-2:13/EN 10216-1:13/ EN 10297-1:03		Dimensions: 38 x 3.6 x 12 000 to 12 500 mm Steel: S235JRH/ P235GH TC1/ P235TR1/ P235TR2/ E235	
Description: Hot rolled seamless steel pipes, unprotected; marking by painting at one end: manufacturer's mark, standard, steel grade, S, heat no., lot no., mill inspector no. 5, technical control sign.			
Heat No. : R58067		Lot: 472218	Steel melt and rolled in ROMANIA
Quantity delivered	Pcs.	Length - m	Weight- Kg
	77	943.24	2883

Ladle Chemical Analysis [%]

C	Mn	S	P	Si	Ni	Cr	Mo	Cu	Al	Nb	Ti	N	V	CE
0.12	0.51	.002	.008	0.24	0.07	0.07	0.02	0.20	.024	.001	.001	.008	.002	0.241

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 3.65		386	472	36
Section (mm ²) : 55.66				
Length - (Lo) (mm) : 50				
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	-		-

Test Eddy Current cf. EN ISO 10893-1/EN 10246-1: OK
 Grain size ASTM E 112: 9.0
 Heat treatment: normalized during hot rolling process, 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 "
 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 ARTROM STEEL TUBES S.A. IT system.

0036- CPR-M-008-2007

ARTROM STEEL TUBES S.A. Draganesti
 Street, No. 30, 230119, SLATINA, OLT, ROMANIA
 23

No. 2-7E / CPR 02-05-23

EN 10210-1:2006

S235JRH / 1.0039

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

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.



TMK-ARTROM S.A.

INSPECTION CERTIFICATE - EN 10204: 2004 / 3.1

Draganesti Str. 30, Slatina, jud. OLT, Romania 230119

Tel: +40 (249) 438862, 434640, 434641

Fax: +40 (249) 434330, 437288

E-mail: office.slatina@tmk-artrom.eu www.tmk-artrom.eu

EUID: ROONRCJ28/9/1991; J28/9/31.01.1991

VAT No. RO 1510210/1992

Subscribed and Paid Share Capital: 291.587.538,34 lei

No : I 1106 Date: 12.01.2018	Sigla fabricii: Manufacturer's mark:	Comanda client nr.: 39/2017 Customer Order No. : 39/2017	PL: 0480
Specificatii/Specification: API5L:13/ ASTM A106:15/ASME SA106:15/ASTM A53:12/ PED 2014/68/EU(Appendix 1, par. 4.3)+ AD 2000W4/ EN 10216-2:13/ ISO 3183:12		Dimensiune / Dimensions: 108 x 5 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, 12.70 Kg/m, TEST PRESSURE 2500 PSI;			
Nr. Sarja / Heat No. : 93737			
Canitaten livrata/ Quantity delivered	Bucati / Pcs. 80	Lungime/Length - m 480.0	Greutate / Weight- Kg 6100

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

Heat no.	C	Mn	S	P	Si	Ni	Cr	Mo	Cu	Al	Nb	Ti	V	B
93737	0.19	1.32	0.004	0.010	0.21	0.07	0.06	0.02	0.24	0.024	0.001	0.001	0.002	.0004

Cr+Cu+Mo+Ni= 0.39

Nb+V=0.003

Nb+V+Ti=0.004

Compozitia chimica pe otel produs / Product Chemical Analyse (%)

Heat no.	C	Mn	S	P	Si	Ni	Cr	Mo	Cu	Al	Nb	Ti	V	B
93737	0.19	1.32	0.004	0.009	0.20	0.08	0.06	0.02	0.22	0.026	0.001	0.001	0.001	.0004
93737	0.19	1.32	0.005	0.010	0.20	0.08	0.06	0.01	0.23	0.027	0.001	0.002	0.001	.0004

Caracteristici mecanice / Mechanical Properties

INCERCAREA LA TRACTIUNE / TENSILE TEST (EN ISO 6892-1) at room temperature-		Rp0.2 N/mm ²	Rt0.5 N/mm ²	Rm N/mm ²	A %
Tip epruveta / Test Specimen // Fasie - longitudinal / Strip - longitudinal		367	369	461	35
Dimensiune / Dimension (mm) : 15,40 x 5,05					
Sectiune / Section (mm ²) : 77.77					
Lungime / Length - (L ₀) (mm) : 45					
Test largire 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 tractiune inel Ring tensile test (EN ISO 8496)	
OK	OK	23 (23; 23; 24) J (-10 ⁰ C)		-	
Hydraulic test pressure (ASTM A530): 2500 PSI for 5 sec: OK		Hardness HRE: 74-75-74-75			
Melting process: electric arc furnace, fully killed		Hardness HRC max 22 (acc to NACE MR01.75/ISO 15156)			
Heat treatment: normalized during hot rolling process, temperature between 880°C - 940°C and cooled in still air		NACE MR01.03/ISO 17945			
Bending test (ASTM A106 point 11): OK		Grain size ASTM E 112: 9.0			

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

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 G OUR COMPANY DOCUMENTS.

A02 **Inspection certificate "3.1" (EN 10 204)**

A03 Document No.: **65359/16**

Page: 1/1

A07	Customer's Order (P.O.) No./Item No.:	5335	A08	Manufacturer's Works Order No.:	31630/0/16												
A11	Supplier's Order No.:	3151001534	A10	Advice - Note No.:	8150007450												
B08, B12/13	Quantity delivered:	B13 Actual mass	A06	Customer / Consignee:													
	pcs	mtrs															
	bolls	feet															
	53	639,000			8289												
B09-11	Dimensions:	133,0 X 4,00 mm															
B02	Steel designation:	P235GH P235TR1 P235TR2															
B01, B03, B04	Product, conditions and terms of delivery:	Seamless steel tubes, EN 10220/02, EN 10216-1/13, EN 10216-2/13 TC1, Normalized hot finished.															
A04, B06	Marking: Manufacturer's mark, mill inspector's stamp	AMTP-OSTRAVA 2															
C71-92	Heat chemical analysis (%)	C70 Steel made by basic oxygen process, fully killed, strand cast.															
B07	Heat No.:	C	MN	SI	P	S	CU	NI	CR	ALT	MO						
	78323K	0,10	0,54	0,234	0,011	0,007	0,06	0,02	0,05	0,032	0,005						
Z99	<input type="checkbox"/>																
B07, C04	Test results:	MPa		MPa		% (5d)		C40-43 Impact test		C30-32 Hardness							
	Heat No. C00 Specimen No.	c11 Yield Point		c12 Tensile Strength		c13 Elongation		C40-43 Impact test		C30-32 Hardness							
	Requirements:	min. 235		360- 500		min. 25		Ø		min							
	P235GH	min. 235		360- 500		min. 25											
	P235TR1	min. 235		360- 500		min. 25											
	P235TR2	min. 235		360- 500		min. 25											
	78323K	315		419		33,5											
Z99	<input type="checkbox"/>																
D01	Visual and dimensional inspection with satisfactory results	X		D51 Hydraulic test - min. test pressure													
C50	Flattening test (EN ISO 8492) - satisfactory	X		D02 The pipes tested on tightness by NDT													
C51	Expanding test (EN ISO 8493) - satisfactory	X		flux - leakage in acc. to EN ISO 10893-1/11		X											
C52	Bending test (EN ISO 8491) - satisfactory			D03 Nondestructive Electromagnetic Testing													
C53	Ring expanding test (EN ISO 8495) - satisfactory																
C54	Ring tensile test (EN ISO 8496) - satisfactory																
Z01	All pipes conform to the above mentioned standards and ordering requirements and agreements.																

Z02 Date of issue **4.11.2016/KA**

Tel. ++420 595683644

A01 ArcelorMittal Tubular Products Ostrava a.s.
A05 QA Department
Vratimovská 689
707 02 Ostrava-Kunčice

ArcelorMittal

ArcelorMittal Tubular Products Ostrava a.s.
Vratimovská 689, 707 02 Ostrava 7
Řízení jakosti

35

Bc. Petr Pastucha

Work's Inspector

Manufacturer:
ArcelorMittal Tubular Products Roman S.A.
Stefan cel Mare, 15A/1, 611038 Roman, Neamt
County, Romania

INSPECTION CERTIFICATE 3.1

according to EN 10204/2005

Page 1/3
B 24895/3
30.04.2022
ArcelorMittal

Tevi din otel fara sudura laminate la cald

Total weight:	11.667 tons	Total Length:	187.17 meters	Pieces	17	Bundles	-
	- lbs		- feet				

Standard: EN 10216-2-2013+A1:2019, EN 10216-1-2014, EN 10297-1-2003;

Buyer's reference: -
Contract 10002967
Dimensions: 323.90 x 8.00 mm
Schedule: -
Length: 10.00 - 12.50 m

Item	Item Client	Hydro Test:	Bar	PSI	MPa	Time(sec)	Steel Grade:
2	-		70	-	7.0	5	P265GHTR/P265TR2/E275 E355
							Transport: BC-07-LFX/BC-87-LFX

Chemical Analysis(%)

Heat	Bulletin No.	Product Req.	Max	Min	Chemical Analysis(%)											
					C	Mn	Si	S	P	Cr	Ni	Cu	Al	Mo	V	Nb
69858	22-102	Heat analysis	0.20	1.40	0.35	0.010	0.025	0.30	0.30	0.30	0.30	0.020	0.08	0.020	0.010	0.040
69858	22-102	Product analysis	0.13	0.86	0.23	0.004	0.008	0.05	0.09	0.18	0.033	0.02	0.014	0.001	0.001	
69858	22-102	Product analysis	0.13	0.84	0.25	0.004	0.008	0.04	0.08	0.17	0.034	0.02	0.013	0.001	0.001	
69858	22-102	Product analysis	0.13	0.85	0.24	0.004	0.007	0.04	0.09	0.17	0.034	0.02	0.013	0.001	0.001	

Chemical Analysis(%)

Heat	Bulletin No.	Product Req.	Max	Min	Chemical Analysis(%)										
					C	Mn	Si	S	P	Cr	Ni	Cu	Al	Mo	V
69858	22-102	Heat analysis	0.340	0.700	C + Mn + Ni + Cu										
69858	22-102	Product analysis	0.310	0.340	C + Mn + Ni + Cu										
69858	22-102	Product analysis	0.320	0.320	C + Mn + Ni + Cu										

CEpcm = C+Si/30+Mn/20+Cu/20+Ni/60+Cr/20+Mo/15+V/10+S/5B
CE_S = C+Mn/6
CE_{mv} = C+Mn/6+(C+Mn+V)/5+(Ni+Cu)/15

Tensile Test

Heat	Orientation	Length	Width/Diameter		Thickness		Section		Mechanical test	YS	YS	UTS	UTS	E	YS/UTS
			mm	inch	mm	inch	mm ²	inch ²							
69858	Longitudinal Flat	-	20.00	-	8.20	-	164.0	-	22-1434	343.20	-	493.90	-	37.30	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 3.1

according to EN 10204/2005

Page 2/3
 B 24895/3
 30.04.2022

ArcelorMittal

Tevi din otel fara sudura laminate la cald

Total weight: 11.667 tons - lbs	Total Length: 187.17 meters - feet
Pieces	Bundles
17	-

Standard: EN 10216-2-2013+A1:2019; EN 10216-1-2014; EN 10297-1-2003;

Buyer's reference: -
 Contract 10002967

Dimensions: 32.3.90 x 8.00 mm
 Schedule: -
 Length: 10.00 - 12.50 m

Item	Item Client	Hydro Test:	Bar	PSI	MPa	Time(sec)	Steel Grade
2	-		70	-	7.0	5	P265GHCP265TR2/E275 E355

Impact Test											
Heat	Impact Test Bulletin No.	Orientation	Size (mm)	Temp. (°C)	Req.KV (min. J)	KV values (J)	Req.Avr. (min. J)	Avr. fracture energy (J)	KCU min.-J/cm² T:°C	Shear Area min. %	Lateral Expansion min. mm
69858	22-3000	Transversal	10x7.5x55	0	-	153 161 146	27.0	153	-	95 95 95	1.36 1.44 1.30

Technological/Microstructure Test		
Heat	Flattening Test Bulletin No.	Flattening Test
69858	22-2659	OK

Heat			
Heat	Pieces	Length (m)	Weight (kg)
69858	17	-	-

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 3.1

according to EN 10204/2005

Page 3/3
 B 24895/3
 30.04.2022

ArcelorMittal

Tevi din otel fara sudura laminate la cald		Total weight:	Total Length:	Pieces	Bundles
		11.667 tons	187.17 meters	17	-
		- lbs	- feet		

Standard: EN 10216-2-2013+A1:2019, EN 10216-1-2014, EN 10297-1-2003;

Buyer's reference	Dimensions: 323.90 x 8.00 mm	Schedule: -	Length: 10.00 - 12.50 m
Contract 10002967			

Item	Item Client	Hydro Test:	Bar	PSI	MPa	Time(sec)	Steel Grade
2	-		70	-	7.0	5	P265GHTCHP265TR2/E275 E355

Remarks

Tevile 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)"
 Otelul este complet calmat, degazat in vid si produs in cuptor electric.
 Inspectie vizuala si dimensionala fara obiectii.
 Marcaj conform normei si cerinta specificata. Livrare vrac.
 Încercările mecanice și compoziția chimică corespund conform buletinelor
 Tevile au fost livrate normalizate din temperatura de sfarsit de laminare (880-1000°C).
 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
 Digitally signed
 by Doina Nistor

Date: 2022.05.16



河北华洋钢管有限公司
HEBEI HUAYANG STEEL PIPE CO LTD
产品质量证明书
MILL TEST REPORT (EN 10204 3.1)

地址: 河北省沧州市希塑新

HEBECUN COUNTY CANGZHOUCITY HEBEI PROVINCE CHINA

客户名称: HEBEI HUAYANG STEEL PIPE CO LTD

TEL: +86 317 529 6685 FAX: +86 317 529 6625

合同编号	合同编号	总支数	总吨数	日期
CONTRACT NO	HVST1902AV	TOTAL PIECES	TOTAL MT	DATE OF ISSUE
1SAW STEEL PIPE	1SAW	10 PIECES	13.87 MT	2019.08

客户名称	产品标准	力学性能	水压试验	证书编号
PRODUCT NAME	LSAW	MECHANICAL PERFORMANCE	HYDROSTATIC TEST	CERTIFICATE NO
1SAW STEEL PIPE	LSAW	EN 10219-1-2	Value	HV1908A

EAT NO	规格	外径	壁厚	长度	支数	吨数	力学性能				冲击功	水压试验	外观检查						
							屈服强度	抗拉强度	伸长率	屈强比				120℃	合格	合格			
0409498	S355J2H	530.0	9.00	12.00	10	13.87	470-630	56	≥355	≥20	24	470-630	579	149	165	154	136	PASS	PASS

EAT NO	化学成分 (%)	CHEMICAL COMPOSITION										硫含量	焊缝金相分析	落锤试验	硬度	弯曲						
		C	Si	Mn	P	S	AlS	N	Cr	Nb	Cu					Mo	Ni	V	CEV	WELDING ANALYSIS	DWT	Hydne
1409498	0.15	0.15	1.43	0.013	0.005	0.028	0.010	0.024	0.001	0.010	0.004	0.010	0.004	0.40	PASS	-	PASS	-	PASS	PASS	PASS	PASS

1. The pipes damaged because of transportation after leaving the factory, loading and unloading when arrived the station, and the customer installs are not within the standard.

2. The certificate of product quality is invalid when duplicated.

3. The certificate of Performance is invalid when duplicated.

4. This is in accordance with the relevant specifications and contracts the steel pipes manufactured in our factory were tested qualified by our quality control department.





(A01) Nazwa wytwórcy / Manufacturer's name / Herstellername
(A05) Wystawiający dokument / Document's originator / Aussteller der Bescheinigung:

ALCHEMIA S.A. 00-807 Warszawa Aleje Jerozolimskie 92
Oddział WALCOWNIA RUR ANDRZEJ
47-120 Zawadzkie ul. Lubliniecka 12 www.alchemiasa.pl

tel: (+48) 77 45 61 100



(A02) Rodzaj dokumentu kontrolny / Type of inspection document / Art der Prüfbescheinigung:

Świadectwo Odbioru / Inspection Certificate / Abnahmeprüfzeugnis:

3.1 wg PN-EN 10204:2006

(A03) Numer dokumentu / Document number / Bescheinigungsnummer:

2395 / E / 2024

(A06) Odbiorca / Addressee / Abnehmer:

(A07) Nr zamówienia Klienta / Purchaser's order / Bestellung Nr. Kontrakt / Contract / Vertrag

1124090046 **W2401109**

(B01) Wyrób/Product/Erzeugnis:

Rury stalowe bez szwu / Seamless steel pipes / Nahtlose Stahlrohre

(A08) Nr zamówienia zakładu (potwierdzenie) / Works confirmation / Vertragsnummer:

5110909801/2024

(B02) (Gatunek / Material designation / Werkstoff):

P265GH

(B03) Warunki techniczne odbioru / Test requirements / Prüfbedingungen:

EN 10216-2 TC1, PED 2014/68/UE,

(C70) Proces wytwarzania stali / Steelmaking process / Stahlherstellungsverfahren

Piec elektryczny łukowy, ciągłe odlewanie stali / Electric arc furnace, Continuous Casting. / Elektroofen, Strangguss

Stal uspokojona / Fully killed / Beruhigter Stahl

(B07) Identyfikacja wyrobu / Product identification / Identifizierung des Erzeugnisses:

Nr partii Lot Los	Nr wytopu Heat No. Schmelze Nr.	Nr zgłoszenia Works Id. No. Betriebs Id. Nr	Wymiary Dimensions Abmessungen (mm)	Waga Weight Gewicht (kg)	Długość Length Länge (m)	Liczba sztuk Number of Pieces Stückzahl	Długość jednost. Unit Length Einheitslänge (mm)	Stempel kontrolera Inspector's stamp Stempel der/des Abnahmebeauftragten	Nr AWIZA
86W6	142559	86W6/24	25.0 x 2.9	1386	876	143	6000+6300mm	NJ1	
Razem / Total / Gesamt:				1386	876	143			

Huta / Steelworks
/ Stahlwerk

**Cognor S.A. / Gliwice-
Labeły**

**Polska /
Poland / Polen**

Kraj wytworzenia rur: Polska / Country of pipe manufacture: Poland /
Land der Rohrerstellung: Polen

(B04) Stan dostawy / Product delivery condition / Lieferzustand:

Gorącywalcowane / Hot rolled / Warm gewalzt

+N

(B06) Znaki trwałe na materiale lub przywieszce zgodnie z potwierdzeniem zamówienia / Durable marks on the material or on the label with contract confirmation /
Markierung auf dem Material oder auf dem Etikett gemäß Auftragsbestätigung.

Feste

(Z04Z05) Cechowanie znakiem CE i inne dopuszczenia / CE marking and other entitlements / CE-Zeichen und andere Zulassungen:

Producent materiałów posiada oceniony system jakości w odniesieniu do materiałów według zał. 1 pkt. 4.3 Dyrektywy PED 2014/68/UE przez TÜV
NORD Systems GmbH & Co. KG, jednostka notyfikowana nr 0045, nr certyfikatu 07/202/9120/WZ/2548/21

/ The Producer has a reviewed quality system in reference to materials acc. annex 1, sec 4.3 Directive PED 2014/68/UE by Notified Body TÜV NORD Systems GmbH & Co. KG, reg.-
no. 0045, certificate no. 07/202/9120/WZ/2548/21

/ Der Hersteller hat ein beurteiltes Qualitätssystem in Bezug auf die Werkstoffe nach dem Anh. 1, Kap. 4.3 Direkive 2014/68/UE durch TÜV NORD Systems GmbH & Co. KG
notifizierte Stelle, Kenn-Nr. 0045, Zertifikat Nr. 07/202/9120/WZ/2548/21

Oddział Certyfikowany na zgodność z normą ISO 9001

Nr auta / Car No / Auto Nr: **34AHP270 / 34BCB838**

Strona / Page / Seite : 1 / 2

(Form. - WRA-16 styczeń-2024)



Digitally signed by TMK-ARTROM S.A.
This document is certified to be electronically
controlled and approved.
Signature requested by Maria Carmen Ivancea
on 2022-08-30 15:24:34.513+03:00
The original electronic document can be retrieved
by scanning the QR code in the left.

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 5960 Part 1 Page no.: I/1 Date: 26.08.2022						
CUSTOMER: NIMFA - COM SRL				Order no. 177		
Manufacturer: TMK ARTROM S.A. Manufacturer's mark:				Works no. 528642		Packing list no.: 1178
Specifications techniques: EN 10210-1:06 & EN 10210-2:19 / PED 2014/68/EU+ AD 2000W4 / + EN 10216-1:13+ EN 10216-2: 13						
Steel grade: S235JRH / P235TR2 / P235GH TC1						
State of delivery: Heat treatment: normalised during hot rolling process, temperature between 880°C - 940°C and cooled in still air						
Description: Hot rolled seamless steel pipes, unprotected, marking at both ends: manufacturer's mark, standard, steel grade, S, heat no., LOT, mill inspector no. 5, technical control sign.						
Item no.	Dimensions of tubes (mm)	Heat no.	Type of deoxidation	Pcs.	Length - m	Weight - Kg
1.	108 x 4 x 12 000 +200/-0	R58903	FN	18	218.7	2304
Steel melt and rolled in ROMANIA						
Additional remarks: The requirements are fulfilled as per Annex 1- Test results The manufacturer of pipes is certified in acc. with ISO 9001: 2015, ISO 14001:2015 and ISO 45001:2018				 0036-CPR-M-008-2007 TMK-ARTROM S.A. Draganesti Street, No.30, 230119, SLATINA, OLT, ROMANIA 22 No. 2-5E / CPR 18-05-22		
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)"				EN 10210-1:2006 S235JRH / 1.0039 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		

This MTC is digitally signed and sealed by TMK-ARTROM S.A. IT system. The document is valid without handwritten signatures. To check its authenticity and integrity, please scan the QR code to download the original electronic document from our site. If you already received an electronic copy from your supplier, please make sure that the file is digitally signed by TMK-ARTROM S.A. Falsification of this document is punishable under the legal provisions and entitles us to claim damages.

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.



TMK-ARTROM S.A.

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 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

Test Results

No: I 5960
 Part 2
 Annex:1 ; Page no.: 1/1

Chemical Analysis (%)

	C	Mn	S	P	Si	Ni	Cr	Mo	Cu	Al	Nb	Ti	N	V	CEQ
	min	min	min	min	min	min	min	min	min	min	min	min	min	min	min
	max	max	max	max	max	max	max	max	max	max	max	max	max	max	max
S235JRH EN10210	0.17	1.40	0.040	0.040	-	-	-	-	-	-	-	-	0.009	-	0.37
P235GH TC1 EN 10216-2	0.16	1.20	0.018	0.025	0.35	0.30	0.30	0.08	0.30	0.020	0.010	0.040	-	0.020	-
P235TR2 EN 10216-1	0.16	1.20	0.015	0.025	0.35	0.30	0.30	0.08	0.30	0.020	0.010	0.040	-	0.020	-

Ladle Chemical Analyse

R58903	0.13	0.51	0.005	0.011	0.22	0.10	0.08	0.04	0.25	0.020	0.001	0.001	0.009	0.002	0.263
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Mechanical Properties

	TENSILE TEST (EN ISO 6892-1) - at room temperature- Test Specimen Strip - Longitudinal			Charpy V (J) (EN ISO 148-1) Test Specimen
	Rp0.2 N/mm ² min max	Rm N/mm ² min max	A long %	
S235JRH EN10210	235 -	360 510	26 -	Longitudinal or Transversal 10 x 10 [mm] min 27 (+ 20 ^o C)
P235GH TC1 EN 10216-2	235 -	360 500	25 -	Longitudinal 10 x 10 [mm] min 40 (0 ^o C)
P235TR2 EN10216-1	235 -	360 500	25 -	Longitudinal 10 x 10 [mm] min 40 (0 ^o C)
heat no: R58903	Dimension (mm): 15.40 x 4.05 Section (mm ²): 63.64 Length (L ₀) (mm): 45			-
Drift expanding test (EN ISO 8493)	Ring expanding test (EN ISO 8495)		Flattening test (EN ISO 8492)	Ring tensile test (EN ISO 8496)
OK	-		OK	-

Hydraulic test pressure - 80 bar for 5 sec: OK

Melting process: electric arc furnace, fully killed
 Grain size ASTM E 112: 9.0

Visual inspection and dimensional check: OK

THE PRODUCTS DELIVERED ARE CONTROLLED ON RADIOACTIVITY RESPECTIVELY ARE FREE FROM ADDITIONAL IONIC RADIATION

NO WELD REPAIR ON HEREBY CERTIFIED TUBES

MILL INSPECTOR

Eng. Constantin Lupu



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.