



ARTROM STEEL TUBES S.A.

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EUID: ROONRC.J1991000009283; J1991000009283; VAT No. RO 1510210/1992

Subscribed and Paid Share Capital: 291.587.538,34 lei

INSPECTION CERTIFICATE - EN 10204: 2004 / 3.2

No: E4871-1 Date: 06.08.2025 Page 1/2	Manufacturer's mark: 	Customer Order No.:	PL:
Specification: API 5L 46 th Ed. April 2018/ ISO 3183:2019, Annex A EN 10216-3:13; PED 2014/68/EU:2014; AD 2000W0:2021/W4:2020/W10:2022; VdTÜV 354/2; DVGW G463: 2016 ITP 49/Ed.1/Rev.3; RNABDFLGJK0D		Dimensions: 114.3 x 11 x 10000 to 12000 mm Steel, PSL: X52N / L360NE PSL2 Steel: P355NL1 TC2/ P355NH TC2	
Description: Hot rolled seamless steel pipes with bevelled ends; unprotected; marking at both ends: manufacturer's mark, API Spec 5L/ISO 3183, dimensions, steel grade, SMLS, heat no., LOT, L (m), mill inspector no. 5, technical control sign, TESTED 50.0 MPa/US // standard, steel grade, 4", HF, TPIA mark // tube number			
Heat No.: R63982		Lot No.: 576956	
Quantity delivered	Pcs.	Length – m	Weight– Kg
	35	411.60	11818

Ladle Chemical Analysis [%]

Heat no.	C	Mn	S	P	Si	Ni	Cr	Mo	Cu	Al	Nb	Ti	N	V	B
R63982	0.17	1.18	0.004	0.016	0.20	0.10	0.08	0.02	0.25	0.022	0.001	0.001	0.009	0.043	0.0004

Cr+Mo+Cu=0.35

Nb+Ti+V=0.045

CEIIW = 0.4186%

Product Chemical Analyse (%)

Lot no.	C	Mn	S	P	Si	Ni	Cr	Mo	Cu	Al	Nb	Ti	V	B
576956	0.17	1.19	0.004	0.015	0.21	0.10	0.086	0.013	0.25	0.024	0.003	0.001	0.045	0.0004
576956	0.17	1.19	0.004	0.014	0.20	0.10	0.085	0.012	0.25	0.023	0.002	0.001	0.045	0.0004

CEIIW = 0.4205/0.4201 (%)

Mechanical Properties

TENSILE TEST (1. ASTM A370:2024/ 2. EN ISO 6892-1:2019) – at room temperature- Test Specimen / Strip - Longitudinal		Rp0.2 N/mm ²	Rt0.5 N/mm ²	Rm N/mm ²	A %	Rt0.5/ Rm
Dimension (mm): 1.1. 25.5 x 11.4 / 1.2. 25.1 x 11.3 /		1.1. –	375	526	40	0.71
2.1. 7.85 x 10.8 / 2.2. 7.8 x 10.9 /		1.2. –	370	523	38	0.71
2.3. 8.2 x 11.35 / 2.4. 8.3 x 11.1		2.1. 372	-	526	31	-
Section (mm ²): 1.1. 293.8 / 1.2. 286.55 / 2.1. 84.86 / 2.2. 85.10 /		2.2. 371	-	538	32	-
2.3. 93.17 / 2.4. 92.23		2.3. 370	-	521	32	-
Length - (Lo) (mm): 1.1. 50.8 / 1.2. 50.8 / 2.1. 55 / 2.2. 55 /		2.4. 370	-	530	30	-
2.3. 55 / 2.4. 55						
Charpy V – Notch (ASTM A370:2024)		Charpy V – Notch (EN ISO 148-1:2016)				
Longitudinal 10 x 10 [mm]		Longitudinal 10 x 10 [mm]				
1. 185 (188; 184; 182) J (0 ⁰ C)		1. 139 (138; 146; 133) J (- 40 ⁰ C) / 2. 141 (140; 138; 146) J (- 40 ⁰ C)				
2. 183 (186; 180; 184) J (0 ⁰ C)		107 (110; 98; 114) J (- 50 ⁰ C)				
		3. 138 (144; 128; 142) J (- 40 ⁰ C) / 4. 139 (140; 132; 144) J (- 40 ⁰ C)				

Heat treatment: normalized with temperature between 880-940°C and cooled in still air

Hydraulic test pressure 50.0 MPa for 10 sec: OK

UT acc. to: - ISO 10893-10:2011/A1:2020, U2/C – 5% notch (longitudinal, OD & ID) : OK

- ISO 10893-8:2011/A1:2020, U2 (laminar imperfections): OK

- ISO 10893-12:2011/A1:2020 (wall thickness): OK

Manual UT acc. to ISO 10893-8:2011/A1:2020, U0 (for laminar imperfections at pipe ends acc. to ISO 3183:2019): OK

Test MPI acc. ISO 10893-5:2011, M4 (on bevelled ends): OK

Test Eddy Current acc. ASTM E309:2024/ISO 10893-2:2011/A1:2020 (10% notch): OK

Straightness: - max 2 mm: 1000 mm local straightness: OK

- max 2 mm:1000 mm of the pipe length straightness: OK

- max 3.2 mm:1500 mm end straightness: OK

Hot yield strength / Hot tensile strength at 300°C: Rp0.2=235 MPa/Rm=445 MPa(Strip longitudinal 5.52 x 11.0=60.75mm²)

Melting process: electric arc furnace, fully killed

Fine grain

Hardness HBW: 164 – 160

Hardness HRC max 22

[acc to NACE MR0175/ISO 15156:2022

NACE MR0103/ISO 17945:2015(13.1.3)]

Flattening test (EN ISO 8492:2013): OK

Ring expanding test (EN ISO 8495): OK

Residual magnetism: max. 30 Gauss: OK



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Visual inspection and dimensional check: OK; NO WELD REPAIRON HEREBY CERTIFIED TUBES

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"

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

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 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



TÜV SÜD ROMANIA
Eng. Uturaş Virgil



MILL INSPECTOR

Eng. Constantin Lupu



This revision replaces the IC no. E4871/12.03.2025

"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)"

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