



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: E3638-1 Date: 23.07.2025 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: 219.1 x 22.2 x 5000 to 9000 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. 2, technical control sign, TESTED 21.0 MPa/US // standard, steel grade, 8", HF, SMLS, TPIA mark // tube number			
Heat No.: R64050		Lot No.: 576230	Steel melt and rolled in ROMANIA
Quantity delivered	Pcs.	Length – m	Weight– Kg
	74	633.11	69724

Ladle Chemical Analysis [%]

Heat no.	C	Mn	S	P	Si	Ni	Cr	Mo	Cu	Al	Nb	Ti	N	V	B
R64050	0.17	1.18	0.002	0.016	0.21	0.08	0.09	0.02	0.25	0.024	0.001	0.001	0.008	0.043	0.0003

Cr+Mo+Cu=0.36

Nb+Ti+V=0.045

CEIIW = 0.419%

Product Chemical Analyse (%)

Lot no.	C	Mn	S	P	Si	Ni	Cr	Mo	Cu	Al	Nb	Ti	V	B
576230	0.17	1.17	0.003	0.015	0.21	0.083	0.095	0.02	0.25	0.024	0.002	0.002	0.044	0.0003
576230	0.17	1.18	0.003	0.015	0.22	0.085	0.096	0.02	0.25	0.024	0.002	0.002	0.044	0.0003

CEIIW = 0.419/0.421 (%)

Mechanical Properties

TENSILE TEST (1. ASTM A370:2024/ 2. EN ISO 6892-1:2019) – at room temperature- Test Specimen / 1. Round / 2. Strip - Longitudinal		Rp0.2 N/mm ²	Rt0.5 N/mm ²	Rm N/mm ²	A %	Rt0.5/ Rm
Dimension (mm): 1.1. 12.68 / 1.2. 12.67 /		1.1. –	389	552	29	0.70
2.1. 6.15 x 22.3 / 2.2. 6.2 x 22.1 /		1.2. –	393	553	29	0.71
2.3. 6.15 x 22.0 / 2.4. 6.1 x 22.2		2.1. 380	-	534	31	-
Section (mm ²): 1.1. 126.28 / 1.2. 126.08 / 2.1. 137.17 / 2.2. 137.04 /		2.2. 383	-	535	28	-
2.3. 135.32 / 2.4. 135.44		2.3. 389	-	530	28	-
Length - (Lo) (mm): 1.1. 50.8 / 1.2. 50.8 / 2.1. 65 / 2.2. 65 /		2.4. 388	-	536	29	-
2.3. 65 / 2.4. 65						
Charpy V – Notch (ASTM A370:2024)		Charpy V – Notch (EN ISO 148-1:2016)				
Transversal 10 x 10 [mm]		Transversal 10 x 10 [mm]			Longitudinal 10 x 10 [mm]	
1. 124 (118; 124; 130) J (0 ⁰ C)		1. 77 (76; 68; 86) J (- 40 ⁰ C) / 2. 74 (73; 66; 84) J (- 40 ⁰ C)			85 (82; 94; 80) J (- 50 ⁰ C)	
2. 119 (122; 116; 118) J (0 ⁰ C)		3. 75 (78; 66; 82) J (- 40 ⁰ C) / 4. 70 (70; 64; 76) J (- 40 ⁰ C)			84 (78; 90; 83) J (- 50 ⁰ C)	

Heat treatment: normalized with temperature between 880-940°C and cooled in still air
 Hydraulic test pressure 21.0 MPa for 10 sec: OK
 UT acc. to ISO 10893-10:2011/A1:2020, U2/C – 5% notch (longitudinal, OD & ID) : OK
 UT acc. to ISO 10893-8:2011/A1:2020, U2 (laminar imperfections): OK
 Manual UT acc. to ISO 10893-8:2011/A1:2020, U0 (for laminar imperfections at pipe ends acc. to ISO 3183:2019): OK
 UT acc. to ISO 10893-12:2011/A1:2020 (wall thickness): OK
 Test MPI acc. ISO 10893-5:2011, M4 (on bevelled ends): 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=281 MPa / Rm=508 MPa (round longitudinal 10.00 = 78.54 mm²)

Melting process: electric arc furnace,
 fully killed
 Fine grain
 Hardness HBW: 178 - 173
 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
 Residual magnetism: max. 30 Gauss: OK



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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, 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 mentioned on this document do not incorporate steel products originating in Russia and Belarus, fully complying with the Regulations (EU) No 833/2014 and 765/2006

This revision replaces the MTC no. E3638/27.02.2025

CHIEF OF QC & TESTING OF THE METALLURGICAL TUBES PRODUCTS

Dipl. Eng. Silviu Barbulescu



MILL INSPECTOR

Eng. Iulian Andrei



TÜV SÜD ROMANIA
Eng. Utauş Virgil



"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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