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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

INSPECTION CERTIFICATE - EN 10204: 2004 / 3.1

No : I 4989 Date: 23.06.2022	Manufacturer's mark:	Customer Order No. : 169	PL: 0935
CUSTOMER- NIMFA-COM SRL			
Specification: EN10210-1:06/ EN10210-2:19/ ISO 3183:19/ EN 10216-1:13/ EN 10216-2:13/ EN 10297-1:03/ ASTM A106:19/ PED 2014/68/EU		Dimensions: 51 x 2.6 x 6 000+100/-0 mm Steel: S355J2H / L245/ P265TR2/ P265GH TC1/ E275/ Gr. B	
Description: Hot rolled seamless steel pipes, unprotected: marking by painting at one end: manufacturer's mark, standard, dimension, steel grade, TEST PRESSURE 17.2 MPa, SMLS, heat no., LOT, LENGTH(m), mill inspector no. 5			
Heat No. : R58815		Steel melt and rolled in Romania	
Quantity delivered	Pcs.	Length - (m)	Weight- Kg
	212	1272.0	3950

Ladle Chemical Analysis [%]

Heat no.	C	Mn	S	P	Si	Ni	Cr	Mo	Cu	Al	Nb	Ti	V	B	CEV
R58815	0.18	1.23	.002	.013	0.24	0.11	0.07	0.02	0.28	.028	.001	.001	.003	0.0005	0.430

Nb+V=0.004

Nb+V+Ti=0.005

Product Chemical Analyse (%)

Heat no.	C	Mn	S	P	Si	Ni	Cr	Mo	Cu	Al	Nb	Ti	V	B
R58815	0.19	1.22	0.001	0.014	0.23	0.10	0.08	0.02	0.30	0.030	0.004	0.002	0.003	0.0005
R58815	0.19	1.21	0.002	0.013	0.23	0.10	0.08	0.02	0.30	0.029	0.003	0.002	0.003	0.0005

Mechanical Properties

TENSILE TEST (1. EN ISO 6892-1/ 2. ASTM A370) -- at room temperature- Test Specimen _ Strip-longitudinal			Rp0.2 N/mm²	Rt0.5 N/mm²	Rm N/mm²	A %
Dimension (mm): 1.1. 15.45 x 2.65 / 1.2. 15.90 x 2.65 / 2. 19.50 x 2.6			1.1. 396	-	531	35
Section (mm²) : 1.1. 40.94 / 1.2. 42.13 / 2. 50.7			1.2. 410	-	535	32
Length - (Lo) (mm) : 1.1. 40 / 1.2. 45 / 2. 50.8			2. -	412	542	33
Drift expanding test (EN ISO 8493)	Flattening test (EN ISO 8492)	Charpy V – Notch (EN ISO 148-1) KV/Longitudinal 2.5 x 10 [mm]	Charpy V – Notch (EN ISO 148-1) KVc/Longitudinal 10 x 10 [mm]			
OK	OK	28 (27; 31; 26) J (0 ⁰ C)	112 (108; 124; 104) J (0 ⁰ C)			
Hydraulic test pressure 17.2 MPa for 5 sec: OK Heat treatment: normalized during hot rolling process, temperature between 880°C - 940°C Bending test (ASTM A106 point 11): OK			Melting process: electric arc furnace, fully killed Hardness HRB: 85–86 Hardness HRC max 22 (acc to NACE MR0175/ISO 15156) NACE MR0103/ISO 17945 Grain size ASTM E 112: 9.0			

Visual inspection and dimensional check : OK

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

"NO WELD REPAIR ON HEREBY CERTIFIED TUBES"

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

Chief of QC & Testing of the Metallurgical Tubes Products

Dipl. Eng. Silviu Barbulescu

MILL INSPECTOR

Eng. Constantin Lupu

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

 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

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.