



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

INSPECTION CERTIFICATE - EN 10204: 2004 / 3.1

No: I 207 Date: 16.01.2023	Manufacturer's mark:	Customer Order No.: 196PROD/17.11.2022	PL: 0041
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: 108 x 6.3 x 12 000+100/-0 mm Steel: S355J2H/ P355NH 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.: A59804		Steel melt and rolled in ROMANIA	
Quantity delivered	Pcs.	Length - m	Weight- Kg
	12	144.0	2294

Ladle Chemical Analysis [%]

C	Mn	S	P	Si	Ni	Cr	Mo	Cu	Al	Nb	Ti	V	CE
0.19	1.31	0.003	0.011	0.22	0.08	0.09	0.02	0.18	0.023	0.002	0.002	0.003	0.448

Cr+Cu+Mo+Ni=0.37

Nb+V=0.005

Nb+V+Ti=0.007

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): 10.20 x 6.40			408	553	30
Section (mm ²): 65.39					
Length - (Lo) (mm): 45					
Drift expanding test (EN ISO 8493)	Flattening test (EN ISO 8492)	Charpy V - Notch (EN ISO 148-1) KV/Longitudinal 5 x 10 [mm]	Ring tensile test (EN ISO 8496)		
OK	OK	73 (76; 73; 69) J (0 ⁰ C) 58 (57; 61; 55) J (-20 ⁰ C)	-		
Melting process: electric arc furnace, fully killed Hydraulic test pressure (70 bar) for 5 sec: OK Heat treatment: normalized during hot rolling process, temperature between 880°C - 940°C and cooled in still air			Hardness HBW: 167-170 Hardness HRC max 22 (acc to NACE MR0175/ISO 15156) NACE MR0103/ISO 17945 Grain size ASTM E 112: 8.5		

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



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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.