



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 6891 Date: 24.10.2022	Manufacturer's mark:	Customer Order No.: 183	PL: 1449
Specification: EN10210-1:06/ EN10210-2:19/ P10216-3:13/ EN 10216-2:13/ EN 10216-1:13		Dimensions: 108 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.: R59543		Steel melt and rolled in ROMANIA	
Quantity delivered	Pcs.	Length - m	Weight- Kg
	102	612.0	6488

Ladle Chemical Analysis [%]

C	Mn	S	P	Si	Ni	Cr	Mo	Cu	Al	Nb	Ti	V	CE
0.17	1.23	0.003	0.017	0.21	0.09	0.13	0.02	0.22	0.030	0.002	0.001	0.003	0.426

Cr+Cu+Mo+Ni=0.46

Nb+V=0.005

Nb+V+Ti=0.006

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): 15.90 x 4.30			404	552	30
Section (mm ²): 68.64					
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 Test Eddy Current cf. EN ISO 10893-1: OK			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

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

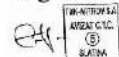
Chief of QC & Testing of the Metallurgical Tubes Products

Dipl. Eng. Silviu Barbulescu



MILL INSPECTOR

Eng. Constantin Lupu



This MTC is digitally signed and sealed by TMK-ARTROM S.A. IT system.

 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: 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.