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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 6451 Date: 23.09.2022	Manufacturer's mark: 	Customer Order No. : 177	PL: 1304
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CUSTOMER- NIMFA-COM SRL

Specification: EN 10216-2:13/ ISO 3183:19/ ASTM A106:19 PED 2014/68/EU+AD 2000W4	Dimensions: 219.1 x 8 x 10 000 to 12 000 mm Steel: P235GH TC1/ P265GH TC1/ L245 PSL1/Gr. B
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Description: Hot rolled seamless steel pipes with bevelled ends, unprotected; marking by painting at one end: manufacturer's mark, standard, steel grade, TEST PRESSURE 19.3 MPa, SMLS, heat no., lot, LENGTH(m), mill inspector no. 2, technical control sign;

Heat No. : R55402	Steel melt and rolled in Romania		
Quantity delivered	Pcs.	Length - m	Weight- Kg
	13	137.23	6056

Ladle Chemical Analysis [%]

Heat no.	C	Mn	S	P	Si	Ni	Cr	Mo	Cu	Al	Nb	Ti	V	N	B
R55402	0.12	0.50	.001	.008	0.20	0.06	0.07	0.04	0.16	.024	.001	.001	.001	.008	.0003

Cr+Cu+Mo+Ni=0.33 Nb+V=0.002 Nb+V+Ti=0.003

Product Chemical Analysis [%]

Heat no.	C	Mn	S	P	Si	Ni	Cr	Mo	Cu	Al	Nb	Ti	V	B
R55402	0.13	0.51	0.002	0.011	0.20	0.06	0.07	0.04	0.17	0.023	0.004	0.001	0.002	.0003
R55402	0.13	0.51	0.002	0.011	0.20	0.06	0.07	0.04	0.17	0.023	0.003	0.001	0.002	.0003

Mechanical Properties

TENSILE TEST (1. EN ISO 6892-1/ASTM A370) - at room temperature- Test Specimen // Strip- longitudinal				Rp0.2 N/mm ²	Rt0.5 N/mm ²	Rm N/mm ²	A %
Dimension (mm) : 1. 10.30 x 8.20 / 2. 37.80 x 8.10				1. 327	-	490	34
Section (mm ²) : 1. 84.49 / 2. 307.82							
Length - (Lo) (mm) : 1. 50 / 2. 50.8				2. -	342	491	35
Drift expanding test (EN ISO 8493)		Flattening test (EN ISO 8492)		Charpy V - Notch (EN ISO 148-1) KV/Longitudinal 5 x 10 [mm]		Charpy V - Notch (EN ISO 148-1)	
-		OK		76 (76; 71; 80) J (0 ^o C)		-	
Heat treatment: normalized				Melting process: electric arc furnace, fully killed			
Hydraulic test pressure (ASTM A530): 19.3 MPa for 5 sec: OK							

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. Iulian Andrei



"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)"

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

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.