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on 2022-07-01 09:44:16.080+03:00  
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**TMK-ARTROM S.A.**

Draganesti Str. 30, Slatina, jud. OLT, Romania 230119  
Tel: +40 (249) 436862, 434640, 434641  
Fax: +40 (249) 434330, 437288  
E-mail: office.slatina@tmk-artrom.eu www.tmk-artrom.eu  
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**

<b>No : I 5071</b> <b>Date: 21.06.2022</b>	<b>Sigla fabricii:</b> <b>Manufacturer's mark:</b>		<b>Comanda client nr.: 29/17.05.2022</b> <b>Customer Order No. : 29/17.05.2022</b>	<b>PL: 0922</b>
<b>CLIENT / CUSTOMER- SENAL - COM</b>				
<b>Specificatii / Specification:</b> <b>EN 10294-1:05</b>	<b>Dimensiune executie / Dimensions ordered: 192.4 x 30.6 x 5 500 to 6 200 mm</b> <b>Dimensiune nominala / Dimensions acc. Standard: 190 x 27.5 x 5 500 to 6 000 mm</b> <b>Otel / Steel: E470</b>			
<b>Descriere: Tevi din otel fara sudura laminate la cald, neprotejate: marcare prin sablonare: sigla fabricii, standard, otel, CODE 190135, nr. sarja, nr. lot, inspector CTC nr. 2, 29/17.05.2022</b> <b>Description: Hot rolled seamless steel pipes, unprotected; marking by painting: manufacturer's mark, standard, steel grade, CODE 190135, heat no., lot no., mill inspector no. 2, technical control sign., 29/17.05.2022</b>				
<b>Nr. Sarja / Heat No. : R58841</b>		<b>Otel produs si laminat in Romania/Steel melt and rolled in Romania</b>		
<b>Cantitatea livrata/ Quantity delivered</b>	<b>Bucati / Pcs.</b>	<b>Lungime/length -(m)</b>	<b>Greutate / Weight- Kg</b>	
	7	39.79	5094	

**Compozitia chimica pe otel lichid / Ladle Chemical Analysis [%]**

Heat no.	C	Mn	S	P	Si	Ni	Cr	Mo	Cu	Al	Nb	N	V
R58841	0.19	1.62	0.020	0.017	0.21	0.10	0.18	0.03	0.25	0.018	0.001	0.007	0.129

**Caracteristici mecanice / Mechanical Properties**

<b>INCERCAREA LA TRACTIUNE / TENSILE TEST ( EN ISO 6892-1 )</b>			<b>Rp0,2</b>	<b>Rm</b>	<b>A</b>
<b>Tip epruveta / Test Specimen</b>			N/mm <sup>2</sup>	N/mm <sup>2</sup>	%
<b>Rotund- longitudinal / Round-longitudinal</b>					
Dimensiune / Dimension (mm) : 10.04			519	732	20
Sectiune / Section ( mm <sup>2</sup> ) : 79.16					
Lungime / Length - (Lo) ( mm) : 50					
Test largire dorn Drift expanding test ( EN ISO 8493 )	Test applatizare Flattening test ( EN ISO 8492 )	Test Charpy - crestatura V Charpy V - Notch (EN ISO 148-1 )	Hardness HB ( EN 10003 )		
-	-	-	-		
State of delivery: as rolled					

Inspectia vizuala si dimensionala: OK / Visual inspection and dimensional check : OK  
Fabrica producatoare de tevi este certificate in accord cu ISO 9001:2015, ISO 14001:2015 si ISO 45001:2018  
The manufacturer of pipes is certified in acc. with ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018  
"TEVILE CERTIFICATE NU AU FOST REMANIATE PRIN SUDURA "  
" NO WELD REPAIR ON HEREBY CERTIFIED TUBES "

Chief of QC & Testing of the Metallurgical Tubes Products

Dipl. Eng. Silviu Barbulescu

MILL INSPECTOR

Eng. Iulian Andrei

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