



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

SEAMLESS TUBES FOR BOILER & HIGH TEMPERATURE SERVICE

Chemical Composition (%)

Steel Group	C	Si	Mn	P max	S max	Cr	Mo	Ni	Sn
Grade A, TU E275	max 0.25	min 0.10	0.27÷0.93	0.035	0.035				
Grade B	max 0.30	min 0.10	0.29÷1.06	0.035	0.035				
St35.8, TU E220	max 0.17	0.10÷0.35	0.40÷0.80	0.040	0.040				
St45.8, TU E250	max 0.21	0.10÷0.35	0.40÷1.20	0.040	0.040				
P195GH	max.0.13	max.0.35	max.0.70	0.025	0.020	max 0.30	max 0.08	max 0.30	
P235GH	max.0.16	max.0.35	max.1.20	0.025	0.020	max 0.30	max 0.08	max 0.30	
P265GH	max.0.20	max.0.40	max.1.40	0.025	0.020	max 0.30	max 0.08	max 0.30	
16Mo3	0.12÷0.20	max0.35	0.40÷0.90	0.025	0.020	max 0.30	0.25÷0.35	max.0.30	
13CrMo4-5	0.10÷0.17	max0.35	0.40÷0.70	0.025	0.020	0.70 ÷1.15	0.40÷0.60	max.0.30	
10CrMo9-10	0.08-0.14	max 0.50	0.30÷0.70	0.020	0.010	2.0 ÷2.50	0.90÷1.10	max.0.30	
ASTM A179	0.06÷0.18	-	0.27÷0.63	0.035	0.035				
Grade A-1	max0.27	min. 0.10	max. 0.93	0.035	0.035				
T11	0.05-0.15	0.30-0.60	0.30-0.60	0.025	0.025	1.00-1.50	0.44-0.65		
T22	0.05-0.15	0.30-0.60	0.30-0.60	0.025	0.025	1.90-2.60	0.87-1.13		
P5	max. 0.15	max. 0.50	0.30-0.60	max. 0.025	0.025	4.00-6.00	0.45-0.65		
P11	0.05-0.15	0.50-1.00	0.30-0.60	max. 0.025	max. 0.025	1.00-1.50	0.44-0.65		
P22	0.05-0.15	max. 0.50	0.30-0.60	max. 0.025	max. 0.025	1.90-2.60	0.87-1.13		

TMK EUROPEAN DIVISION Cod: FCU-01, Ed. 3 Rev. 3/2019



API:
5CT-0440
5L-0352

LR:
ISO 9001
ISO 14001
ISO 45001

TUV:
PED/AD-2000 W0/W4
TRD 100/102
Vd TUV

TUV CPR:
EN 10210-1,2
EN 10255

LR
DNV-GL Rules
RINA

LR:
IATF 16949