



ARTROM STEEL TUBES S.A.

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 EUID: ROONRC.J1991000009283; J1991000009283; VAT No. RO 1510210/1992
 Subscribed and Paid Share Capital: 291.587.538,34 lei

Tab.4 Mechanical Properties Acc.API 5L

Delivery status	Level	Grade	Yield Strength Rt0,5, ksi (MPa) minimum		Tensile Strength Rm, PSI (MPa) minimum		Ratio Rt05 / Rm
			minim	maxim	minim	maxim	
Normalization or rolling normalization	PSL1	L210 or A	30500(210)		48600(335)		
		L245 or r B	35500(245)		60200(415)		
		L290 or X42	42100(290)		60200(415)		
		L320 or X46	46400(320)		63100(435)		
		L360 or X52	52200(360)		66700(460)		
		L390 or X56	56600(390)		71100(490)		
		L415 or X60	60200(415)		75400(520)		
		L450 or X65	65300(450)		77600(535)		
Normalization	PSL2	L245N or BN	35500(245)	65300(450)	60200(415)	95000(655)	0.93
		L290N or X42N	42100(290)	71800(495)	60200(415)	95000(655)	0.93
		L320N or X46N	46400(320)	76100(525)	63100(435)	95000(655)	0.93
		L360N or X52N	52200(360)	76900(530)	66700(460)	110200(760)	0.93
		L390N or X56N	56600(390)	79000(545)	71100(490)	110200(760)	0.93
		L415N or X60N	60200(415)	81900(565)	75400(520)	110200(760)	0.93
Quenching and tempering (Q&T)	PSL2	L245Q or BQ	35500(245)	65300(450)	60200(415)	95000(655)	0.93
		L290Q or X42Q	42100(290)	71800(495)	60200(415)	95000(655)	0.93
		L320Q or X46Q	46400(320)	76100(525)	63100(435)	95000(655)	0.93
		L360Q or X52Q	52200(360)	76900(530)	66700(460)	110200(760)	0.93
		L390Q or X56Q	56600(390)	79000(545)	71100(490)	110200(760)	0.93
		L415Q or X60Q	60200(415)	81900(565)	75400(520)	110200(760)	0.93

ARTROM STEEL TUBES S.A. Cod: FCU-01, Ed. 5 Rev. 3/2025

LRQA:
 ISO 9001
 ISO 14001
 ISO 45001

LRQA:
 IATF 16949

TUV:
 PED/AD-2000 W0/W4
 Vd TUV

TUV CPR:
 EN 10210-1,2
 EN 10255

DNV
 RINA
 LR

		L450Q or X65Q	65300(450)	87000(600)	77600(535)	110200(760)	0.93
Annex H Normaliza- tion	PSL2	L245NS or BNS	35500(245)	65300(450)	60200(415)	95000(655)	0.93
		L290NS or X42NS	42100(290)	71800(495)	60200(415)	95000(655)	0.93
		L320NS or X46NS	46400(320)	76100(525)	63100(435)	95000(655)	0.93
		L360NS or X52NS	52200(360)	76900(530)	66700(460)	110200(760)	0.93
Delivery status	Level	Grade	Yield Strength Rt0,5, ksi (MPa) minimum		Tensile Strength Rm, PSI (MPa) minimum		Ratio Rt05 / Rm
			<i>minim</i>	<i>maxim</i>	<i>minim</i>	<i>maxim</i>	
Annex H Q&T	PSL2	L245QS or BQS	35500(245)	65300(450)	60200(415)	95000(655)	0.93
		L290QS or X42QS	42100(290)	71800(495)	60200(415)	95000(655)	0.93
		L320QS or X46QS	46400(320)	76100(525)	63100(435)	95000(655)	0.93
		L360QS or X52QS	52200(360)	76900(530)	66700(460)	110200(760)	0.93
		L390QS or X56QS	56600(390)	79000(545)	71100(490)	110200(760)	0.93
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