

Material: EN X 5 NiCrAlTi 31 20

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: EN X 5 NiCrAlTi 31 20 Seamless Steel Tubes for Pressure Purposes

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry: Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 - 0.080	Solution Annealing	
Silicon	Si %	0.700 max.		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.015 max.		
Sulphur	S %	0.010 max.		
Chromium	Cr %	19.000 - 22.000		
Nickel	Ni %	30.000 - 32.500		
Titanium	Ti %	0.200 - 0.500		
Niobium	Nb %	0.100 max.		
Ni + Co	Ni% + Co%	30.000 - 32.500		
			Mechanical Properties	
Aluminium	Al %	0.200 - 0.500	Tensile Strength in Mpa	500 - 750
Al + Ti	Al% + Ti%	0.700 max.	Yield Strength in Mpa	170 min.
Cobalt	Co %	0.500 max.	Elongation in %	30 min.
Copper	Cu %	0.500 max.	Reduction of Area in %	-
Iron	Fe %	Balance	Hardness in BHN	-
			Impact in Joule	80 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
10216-5 EN 1.4958(+RA)	BS	British	Tube
1.4958	DIN	Germany	Steel
1.4958	EN	European Union	Steel
1.4958	DIN	Germany	Steel
X5NiCrAlTi31 20	DIN	Germany	Steel and Flat
1.4959	EN	European Union	Steel
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