

Material: DIN 1.4959

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: DIN 1.4959 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 %	0.050 - 0.100	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 - 34.000		
Titanium	Ti %	0.250 - 0.650		
Aluminium	Al %	0.250 - 0.650		
Copper	Cu %	0.500 max.		
Iron	Fe %	Balance	Mechanical Properties Tensile Strength in Mpa 500 - 750 Yield Strength in Mpa 170 min. Elongation in % 30 min. Reduction of Area in % - Hardness in BHN - Impact in Joule 80 J @ RT	
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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	EN	European Union	Steel and Flat
1.4959	EN	European Union	Steel
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