

Material: EN 1.4558

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: EN 1.4558 Seamless Steel Tubes for Pressure Purposes

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

Grade Belongs to the Industry: Steel, Rolling and Forging

Chemical Composition		
Carbon	C %	0.030 max.
Silicon	Si %	0.700 max.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.020 max.
Sulphur	S %	0.015 max.
Chromium	Cr %	20.000 - 23.000
Nickel	Ni %	32.000 - 35.000
Titanium	Ti %	0.600 max.
Aluminium	Al %	0.150 - 0.450
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	450 - 700
Yield Strength in Mpa	180 min.
Elongation in %	30 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	90 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
10216-5 EN 1.4558	BS	British	Tube
1.4558	DIN	Germany	Steel, Rolling and Forging
X2NiCrAlTi32-20	DIN	Germany	Steel, Rolling and Forging
NCF 800 TB	JIS	Japan	Steel and Tube
-	-	-	-
-	-	-	-
-	-	-	-

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Customer Care: +91-99090 45075 Email: info@icastllp.com



+91-99090 45075



info@icastllp.com



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India