

Material: DIN X1CrNiMoCuN20-18-7

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: DIN X1CrNiMoCuN20-18-7 Seamless Steel Tubes for Pressure Purposes

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

Grade Belongs to the Industry: Steel, Sheet, Plate and Strip

Chemical Composition			Heat Treatment	
Carbon	C %	0.020 max.	Solution Annealing	
Silicon	Si %	0.700 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.010 max.		
Chromium	Cr %	19.500 - 20.500		
Molybdenum	Mo %	6.000 - 7.000		
Nickel	Ni %	17.500 - 18.500		
Copper	Cu %	0.500 - 1.000		
Nitrogen	N %	0.180 - 0.250		
Iron	Fe %	Balance	Mechanical Properties Tensile Strength in Mpa 500 - 2100 Yield Strength in Mpa 300 min. Elongation in % 20 min. Reduction of Area in % - Hardness in BHN 260 max. Impact in Joule 60 J @ RT	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
0216-5 EN 1.4547	BS	British	Tube
1.4547	DIN	Germany	Steel, Bar and Rod
1.4547	EN	European Union	Steel, Bar and Rod
X1CrNiMoCuN20-18-7	AFNOR NF	France	Steel, Bar and Rod
X1CrNiMoCuN20-18-7	UNI	Italy	Steel, Sheet, Strip and Plate
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