

Material: DIN 1.4981

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: DIN 1.4981 Seamless Steel Tubes for Pressure Purposes

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

Grade Belongs to the Industry: Steel and Tube

Chemical Composition			Heat Treatment	
Carbon	C %	0.040 - 0.100	Solution Annealing	
Silicon	Si %	0.300 - 0.600		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	15.500 - 17.500		
Molybdenum	Mo %	1.600 - 2.000		
Nickel	Ni %	15.500 - 17.500		
Niobium	Nb %	1.200 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	529.6 - 690
-	-	-	Yield Strength in Mpa	215 min.
-	-	-	Elongation in %	22 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	60 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
10216-5 EN 1.4981	BS	British	Tube
1.4981	EN	European Union	Steel and Tube
X8CrNiMoNb16 16	EN	European Union	Steel and Tube
X8CrNiMoNb16 16	DIN	Germany	Steel and Tube
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