

Material: EN 1.4335

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: EN 1.4335 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 %	0.020 max.	Solution Annealing	
Silicon	Si %	0.150 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.010 max.		
Chromium	Cr %	24.000 - 26.000		
Molybdenum	Mo %	0.200 max.		
Nickel	Ni %	20.000 - 22.000		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	470 - 670
-	-	-	Yield Strength in Mpa	180 min.
-	-	-	Elongation in %	20 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	220 max.
-	-	-	Impact in Joule	60 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4335	EN	European Union	Tube
1.4335	DIN	Germany	Steel
X1CrNi25 21	DIN	Germany	Steel, Rolling and Forging
X1CrNi25 21	UNI	Italy	Steel, Sheet, Strip and Plate
X1CrNi25 21	AFNOR NF	France	Steel
X1CrNi25-20	AFNOR NF	France	Steel and Tube
Z1CN25-20	AFNOR NF	France	Steel and Tube

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