

Material: DIN 1.4335

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: DIN 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		
Carbon	C %	0.020 max.
Silicon	Si %	0.150 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.025 max.
Sulphur	S %	0.005 max.
Chromium	Cr %	24.000 - 26.000
Molybdenum	Mo %	0.100 max.
Nickel	Ni %	20.000 - 22.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
Solution Annealing	

Mechanical Properties	
Tensile Strength in Mpa	470 - 2100
Yield Strength in Mpa	180 min.
Elongation in %	20 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	120 min. @ 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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