

Material: DIN X 8 NiCrAlTi 32 21

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: DIN X 8 NiCrAlTi 32 21 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 %	0.050 - 0.100
Silicon	Si %	0.700 max.
Manganese	Mn %	1.500 max.
Phosphorus	P %	0.015 max.
Sulphur	S %	0.010 max.
Chromium	Cr %	19.000 - 22.000
Nickel	Ni %	30.000 - 34.000
Titanium	Ti %	0.250 - 0.650
Ni + Co	Ni% + Co%	30.000 - 34.000
Aluminium	Al %	0.250 - 0.650
Copper	Cu %	0.500 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	500 - 750
Yield Strength in Mpa	170 min.
Elongation in %	30 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	80 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4959	EN	European Union	Tube
1.4959	DIN	Germany	Steel
1.4959	EN	European Union	Tube
1.4958	DIN	Germany	Steel
1.4958	EN	European Union	Steel
X5NiCrAlTi31 20	DIN	Germany	Steel and Flat
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