



Material - DIN 1.4959

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - DIN 1.4959 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 %	0.050 - 0.100	Solution Annealing			
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				
Aluminium	Al %	0.250 - 0.650				
Copper	Cu %	0.500 max.				
Iron	Fe %	Balance	<th colspan="2">Mechanical Properties</th>		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
10216-5 EN 1.4958(+RA)	BS	British	Tube
1.4958	DIN	Germany	Steel
1.4958	EN	European Union	Steel
1.4958	DIN	Germany	Steel
X5NiCrAlTi31 20	EN	European Union	Steel and Flat
1.4959	EN	European Union	Steel
-	-	-	-

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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