

# Material: DIN 1.4959

## Standard Specification for Seemless Steel Tubes for Pressure Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** DIN 1.4959 Seemless 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
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
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
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