

## Material: BS 10216-5 EN 1.4558

### Standard Specification for Seamless Steel Tubes for Pressure Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** BS 10216-5 Seamless Steel Tubes for Pressure Purposes

**Application:** Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade

**Belongs to the Industry:** Tube

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 max.	Solution Annealing	
Silicon	Si %	0.700 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	20.000 - 23.000		
Nickel	Ni %	32.000 - 35.000		
Titanium	Ti %	8*(C+N) - 0.600		
Aluminium	Al %	0.150 - 0.450		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b>	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Tensile Strength in Mpa	450 - 700
			Yield Strength in Mpa	180 min.
			Elongation in %	30 min.
			Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	60 min. @ -196°C

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4558	EN	European Union	Steel, Rolling and Forging
1.4558	DIN	Germany	Steel, Rolling and Forging
X2NiCrAlTi32-20	DIN	Germany	Steel, Rolling and Forging
NCF 800 TB	JIS	Japan	Steel and Tube
1.4558	BS	British	Steel and Tube
1.4558	ONORM	Austria	Steel and Tube
1.4558	UNI	Italy	Steel and Tube

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