

## Material: EN 1.4948

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

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** DIN 1.4948 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 %	0.040 - 0.080	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	17.000 - 19.000		
Nickel	Ni %	8.000 - 11.000		
Nitrogen	N %	0.110 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	-
-	-	-	Yield Strength in Mpa	-
-	-	-	Elongation in %	-
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
10216-5 EN 1.4948	BS	British	Tube
1.4948	DIN	Germany	Steel
1.4948	EN	European Union	Steel
304	AISI	USA	Bar, Wire, Strip, Slit, Plate, Sheet and Forging
1.4308	DIN	Germany	Casting
1.4301	EN	European Union	Forging
304 S 11	BS	British	Bright Bars, Hot Rolled and Cold Rolled Coil

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