

# Material: DIN 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		
Carbon	C %	0.040 - 0.080
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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	490 - 740
Yield Strength in Mpa	185 min.
Elongation in %	30 min.
Reduction of Area in %	38 min.
Hardness in BHN	-
Impact in Joule	55 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
10216-5 EN 1.4948	BS	British	Tube
1.4948	EN	European Union	Steel
A743 CF8	ASTM	USA	Casting
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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Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)



+91-99090 45075



[info@icastllp.com](mailto:info@icastllp.com)



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India