

# Material: DIN 1.4988

## Standard Specification for Seamless Steel Tubes for Pressure Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** DIN 1.4988 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 - 0.100
Silicon	Si %	0.300 - 0.600
Manganese	Mn %	1.500 max.
Phosphorus	P %	0.035 max.
Sulphur	S %	0.015 max.
Chromium	Cr %	15.500 - 17.500
Molybdenum	Mo %	1.100 - 1.500
Nickel	Ni %	12.500 - 14.500
Vanadium	V %	0.600 - 0.850
Niobium	Nb %	1.200 max.
Nitrogen	N %	0.060 - 0.140
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment	
	Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	539.4 - 740
Yield Strength in Mpa	255 min.
Elongation in %	20 min.
Reduction of Area in %	-
Hardness in HB	145 - 190
Impact in Joule	40 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
10216-5 EN 1.4988	BS	British	Tube
1.4988	EN	European Union	Steel
X8CrNiMoVNb16-13	EN	European Union	Steel and Flat
X8CrNiMoVNb16 13	DIN	Germany	Steel and Tube
-	-	-	-
-	-	-	-
-	-	-	-

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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