



Material - BS 10216-5 EN 1.4988

Standard Specification for Seemless Steel Tubes for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - BS 10216-5 Seemless 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 %	0.040 - 0.100	Solution Annealing	
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		
Nickel	Ni %	12.500 - 14.500		
Molybdenum	Mo %	1.100 - 1.500		
Niobium	Nb %	10*C - 1.200	Mechanical Properties	
Nitrogen	N %	0.060 - 0.140	Tensile Strength in Mpa	540 - 740
Vanadium	V %	0.600 - 0.850	Yield Strength in Mpa	255 min.
Iron	Fe %	Balance	Elongation in %	20 min.
-	-	-	Reduction of Area in %	-
-	-		Hardness in BHN	-
-	-	-	Impac <mark>t in Joule</mark>	40 min. @ RT

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
1.4988	EN	European Union	Steel	
1.4988	DIN	Germany	Steel	
X8CrNiMoVNb16-13	EN	European Union	Steel and Flat	
X8CrNiMoVNb16 13	DIN	Germany	Steel and Tube	
1.4988	UNI	Italy	Steel	
1.4988	ONORM	Austria	Steel	
1.4988	AFNOR NF	France	Steel	

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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