GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - EN X 8 CrNiMoVNb 16 13

Standard Specification for Seemless Steel Tubes for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - EN X 8 CrNiMoVNb 16 13 Seemless Steel Tubes for Pressure Purposes

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Steel and Flat

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	540 - 740
Yield Strength in Mpa	255 min.
Elongation in %	20 min.
Reduction of Area in %	-
Hardness in BHN	-
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	DIN	Germany	Steel
1.4988	EN	European Union	Steel
X8CrNiMoVNb16 13	DIN	Germany	Steel and Tube
-	-	-	-
-	-	-	-
-	-	-	-

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