GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10302 1.4945 (X6CrNiWNbN16-16)

Standard Specification for Creep Resisting Steel, Nickel and Cobalt Alloys

Group - Ferrous Stainless Steel Alloys

Sub Group - BS EN 10302 1.4945 (X6CrNiWNbN16-16) Creep Resisting Steel, Nickel and Cobalt Alloys

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.
Nitrogen	N %	0.060 - 0.140
Chromium	Cr %	15.500 - 17.500
Niobium	Nb %	0.010 - 1.200
Nickel	Ni %	15.500 - 17.500
Tungsten	W %	2.500 - 3.500
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	630 - 840
Proof Strength in Mpa	490 min.
Elongation in %	-
Reduction of Area in %	17 min.
Hardness in HB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
10088-1 1.4945	EN	European Union	Steel
10088-1 X6CrNiWNbN16-16	EN	European Union	Steel
1.4945	DIN	Germany	Steel
X 6 CrNiWNb 16-16	DIN	Germany	Steel
17459 1.4981	DIN	Germany	Steel and Tubing
17460 1.4981	DIN	Germany	Steel
1.4984	DIN	Germany	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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