GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS ISO 16143-1 X6CrNiMoTi17-12-2 (4571-316-35-I)

Standard Specification for Stainless Steels for General Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - BS ISO 16143-1 X6CrNiMoTi17-12-2 (4571-316-35-I) Stainless Steels for General Purposes

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

Grade Belongs to the Industry - Steel

Chemical Composition		
Carbon	C %	0.080 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.045 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	16.500 - 18.500
Molybdenum	Mo %	2.000 - 2.500
Nickel	Ni %	10.500 - 13.500
Titanium	Ti %	0.005 - 0.700
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	530 - 730
Proof Strength in Mpa	270 min.
Elongation in %	40 min.
Reduction of Area in %	-
Hardness in HBW	-
Impact in Joule	100 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
970-3 316 S 31	B.S.	United Kingdom	Steel
1503 316 S 40	B.S.	United Kingdom	Steel and Forging
1506 316 S 61	B.S.	United Kingdom	Steel and Bars
EN 10088-3 X6CrNiMoTi17-12-2	AFNOR NF	France	Steel, Bars and Rods
EN 10088-1 X6CrNiMoTi17-12-2	AFNOR NF	France	Steel
10263-5 X 6 CrNiMoTi 17 12 2	EN	European Union	Bars, Wire and Rods
SEW 400 1.4561	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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