GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS ISO 16143-1 X1CrNiMoCuN20-18-7 (4547-312-54-I)

Standard Specification for Stainless Steels for General Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - BS ISO 16143-1 X1CrNiMoCuN20-18-7 (4547-312-54-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 %	0.020 max.
Silicon	Si %	0.700 max.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.035 max.
Sulphur	S %	0.015 max.
Chromium	Cr %	19.500 - 20.500
Molybdenum	Mo %	6.000 - 7.000
Nickel	Ni %	17.500 - 18.500
Nitrogen	N %	0.180 - 0.250
Copper	Cu %	0.500 - 1.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	650 - 850
Proof Strength in Mpa	350 min.
Elongation in %	35 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**
EN 10088-2 X 1 CrNiMoCuN 20-18-7	UNI	Italy	Steel and Casting
EN 10088-1 X1CrNiMoCuN20-18-7	AFNOR NF	France	Steel
EN 10088-3 X1CrNiMoCuN20-18-7	AFNOR NF	France	Steel
EN 10088-3 X1CrNiMoCuN20-18-7	DIN	Germany	Steel
EN 10088-3 1.4547	DIN	Germany	Steel
10250-4 X 1 CrNiMoCuN 20 18 7	EN	European Union	Steel and Forging
10250-4 1.4547	EN	European Union	Steel and Forging

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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