GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS ISO 16143-1 X8CrMnCuN17-8-3 (4597-204-76-I)

Standard Specification for Stainless Steels for General Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - BS ISO 16143-1 X8CrMnCuN17-8-3 (4597-204-76-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 %	0.100 max.
Silicon	Si %	2.000 max.
Manganese	Mn %	6.500 - 9.000
Phosphorus	P %	0.040 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	15.000 - 18.000
Molybdenum	Mo %	1.000 max.
Nickel	Ni %	3.000 max.
Nitrogen	N %	0.100 - 0.300
Copper	Cu %	2.000 - 3.500
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	580 - 780
Proof Strength in Mpa	330 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**
S20430	UNS	USA	Steel
A 959 S20430	ASTM	USA	Steel
SA-240 UNS S20400	ASME	USA	Steel
10088-1 1.4597	EN	European Union	Steel
10088-1 X8CrMnCuN17–8-3	EN	European Union	Steel
10088-3 1.4597	EN	European Union	Steel
10088-3 X8CrMnCuN17-8-3	EN	European Union	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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