

Material: BS EN 10213 GX8CrNi12

Standard Specification for Steel Castings for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: BS EN 10213 GX8CrNi12 Steel Castings for Pressure Purposes

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

Grade Belongs to the Industry: Plate, Tubes and Forging

Chemical Composition		
Carbon	C %	0.100 max.
Silicon	Si %	0.400 max.
Manganese	Mn %	0.500 - 0.800
Phosphorus	P %	0.030 max.
Sulphur	S %	0.020 max.
Chromium	Cr %	11.500 - 12.500
Molybdenum	Mo %	0.500 max.
Nickel	Ni %	0.800 - 1.500
Copper	Cu %	0.300 max.
Vanadium	V %	0.800 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Quenching or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	355 min.
Yield Strength in Mpa	275 min.
Elongation in %	-
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	45 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
GX8CrNi12-1	ISO	International	Casting
1.4107	ISO	International	Casting
SCS 1	JIS	Japan	Casting
GX 8 CrNi 12	ONORM	Australia	Casting
1.4107	ONORM	Australia	Casting
GX 8 CrNi 12	NBN	Belgium	Casting
1.4107	NBN	Belgium	Casting

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Customer Care: +91-99090 45075 Email: info@icastllp.com



+91-99090 45075



info@icastllp.com



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India