



Material - ISO 1.4107

Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - ISO 1.4107 Steel Castings for Pressure Purposes

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.100 max.	Normalizing or Quenching or Solution Annealing	
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	Mechanical Properties Tensile Strength in Mpa 540 - 800 Yield Strength in Mpa 355 min. Elongation in % 16 min. Reduction of Area in % - Hardness in BHN - Impact in Joule 40 J @ RT	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN 10213 GX8CrNi12	BS	British	Plate, Tubes and Forging
GX8CrNi12-1	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

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.