



## Material - AFNOR NF GX8CrNi12

### Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - AFNOR NF GX8CrNi12 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.	Normalising or Annealing or Hardening + Tempering	
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		
Nickel	Ni %	0.800 - 1.500		
Molybdenum	Mo %	0.500 max.		
Copper	Cu %	0.300 max.		
Vanadium	V %	0.080 max.		
Iron	Fe %	Balance	<b>Mechanical Properties</b> Tensile Strength in Mpa   540 - 690 Yield Strength in Mpa   355 min. Elongation in %   18 min. Reduction of Area in %   - Hardness in BHN   - Impact in Joule   -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4107	EN	European Union	Casting
1.4107	DIN	Germany	Casting
1.4107	EN	European Union	Casting
GX8CrNi12	UNI	Italy	Casting
GX8CrNi12	ONORM	Australia	Casting
GX8CrNi12	DIN	Germany	Casting
GX8CrNi12	EN	European Union	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](mailto: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.