

# Material: ISO GX8CrNi12-1

## Standard Specification for Steel Castings for Pressure Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** ISO GX8CrNi12-1 Steel Castings for Pressure Purposes

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

**Grade Belongs to the Industry:** Casting

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	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
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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