



Material - DIN GX8CrNi12

Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - DIN 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	<table border="1"> <thead> <tr> <th colspan="2">Mechanical Properties</th> </tr> </thead> <tbody> <tr> <td>Tensile Strength in Mpa</td> <td>540 - 800</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>355 min.</td> </tr> <tr> <td>Elongation in %</td> <td>16 min.</td> </tr> <tr> <td>Reduction of Area in %</td> <td>-</td> </tr> <tr> <td>Hardness in BHN</td> <td>-</td> </tr> <tr> <td>Impact in Joule</td> <td>35 J @ RT</td> </tr> </tbody> </table>		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	35 J @ RT
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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	EN	European Union	Casting
GX8CrNi12	AFNOR NF	France	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

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