



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - DIN GX2CrNiMoN22-5-3

Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - DIN GX2CrNiMoN22-5-3 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 %	0.030 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.025 max.		
Chromium	Cr %	21.000 - 23.000		
Molybdenum	Mo %	2.500 - 3.500		
Nickel	Ni %	4.500 - 6.500		
Nitrogen	N %	0.120 - 0.200		
Copper	Cu %	0.500 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
Mechanical Properties				
Tensile Strength in Mpa		600 - 800		
Yield Strength in Mpa		420 min.		
Elongation in %		20 min.		
Reduction of Area in %		-		
Hardness in BHN		-		
Impact in Joule		30 J @ RT		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4470	EN	European Union	Casting
1.447	DIN	Germany	Casting
1.447	DIN	Germany	Casting
GX2CrNiMoN22-5-3	UNI	Italy	Casting
GX2CrNiMoN22-5-3	DIN	Germany	Casting
GX2CrNiMoN22-5-3	EN	European Union	Casting
GX2CrNiMoN22-5-3	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

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.

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