



**GRAVITY CAST PVT. LTD.**  
GRAVITY GROUP OF COMPANIES

## Material - BS GX25CrNiSi18-9

### Standard Specification for Steel Castings for General Engineering Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - BS GX25CrNiSi18-9 Steel Castings for General Engineering Purposes

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.150 - 0.350	As Cast or Annealing or Normalizing or Hardening and Tempering	
Silicon	Si %	0.500 - 2.500		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	17.000 - 19.000		
Molybdenum	Mo %	0.500 max.		
Cobalt	Co %	1.000 max.		
Copper	Cu %	0.250 max.		
Niobium	Nb %	0.600 max.		
Vanadium	V %	0.120 max.	<b>Mechanical Properties</b> Tensile Strength in Mpa      450 min. Yield Strength in Mpa      230 min. Elongation in %      15 min. Reduction of Area in %      - Hardness in BHN      - Impact in Joule      -	
Tungsten	W %	0.600 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
302C35	BS	British	Casting
Z 25CN20.10-M	AFNOR NF	France	Casting
1.4825	ONORM	Australia	Casting
GX25CrNiSi18-9	ONORM	Australia	Casting
1.4825	EN	European Union	Casting
GX25CrNiSi18-9	EN	European Union	Casting
1.4825	BDS	Bulgaria	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.

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