



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

## Material - UNI G X 4 CrNiMo 16-5-1

### Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - UNI G X 4 CrNiMo 16-5-1 Steel Castings for Pressure Purposes

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.060 max.	Normalising or Annealing or Hardening + Tempering	
Silicon	Si %	0.800 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.025 max.		
Chromium	Cr %	15.000 - 17.000		
Molybdenum	Mo %	0.700 - 1.500		
Nickel	Ni %	4.000 - 6.000		
Vanadium	V %	0.080 max.		
Copper	Cu %	0.300 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
Mechanical Properties				
Tensile Strength in Mpa		760 - 960		
Yield Strength in Mpa		540 min.		
Elongation in %		15 min.		
Reduction of Area in %		-		
Hardness in BHN		-		
Impact in Joule		60 J @ RT		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4405	EN	European Union	Casting
1.4405	DIN	Germany	Casting
1.4405	DIN	Germany	Casting
GX4CrNiMo16-5-1	DIN	Germany	Casting
GX4CrNiMo16-5-1	DIN	Germany	Casting
GX4CrNiMo16-5-1	EN	European Union	Casting
GX4CrNiMo16-5-1	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](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.

**ONE STOP SOLUTION FOR METAL PARTS**