



## Material - EN 1.4458

### Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - EN 1.4458 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 %	19.000 - 22.000		
Molybdenum	Mo %	2.000 - 2.500		
Nickel	Ni %	26.000 - 30.000		
Copper	Cu %	2.000 max.		
Nitrogen	N %	0.200 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

  

Mechanical Properties	
Tensile Strength in Mpa	430 - 630
Yield Strength in Mpa	190 min.
Elongation in %	30 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
1.4458	EN	European Union	Casting
1.4458	DIN	Germany	Casting
GX2NiCrMo28-20-2	UNI	Italy	Casting
GX2NiCrMo28-20-2	DIN	Germany	Casting
GX2NiCrMo28-20-2	AFNOR NF	France	Casting
GX2NiCrMo28-20-2	EN	European Union	Casting
GX2NiCrMo28-20-2	DIN	Germany	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)**

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