



Material - DIN 1.4859

Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - DIN 1.4859 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 %	0.050 - 0.150	Normalizing or Quenching or Solution Annealing	
Silicon	Si %	0.500 - 1.500		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	19.000 - 21.000		
Molybdenum	Mo %	0.500 max.		
Nickel	Ni %	31.000 - 33.000		
Copper	Cu %	0.500 max.		
Niobium	Nb %	0.050 - 1.500		
Iron	Fe %	Balance	Mechanical Properties Tensile Strength in Mpa 400 - 640 Yield Strength in Mpa 170 min. Elongation in % 20 min. Reduction of Area in % - Hardness in BHN - Impact in Joule 27 J @ RT	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
GX10NiCrSiNb32-20	BS	British	Plate, Tubes and Forging
GX10NiCrSiNb32-20	ISO	International	Casting
1.4859	ISO	International	Casting
GX10NiCrSiNb32-20	DIN	Germany	Casting
GX10NiCrSiNb32-20	UNI	Italy	Casting
1.4859	UNI	Italy	Casting
GX10NiCrSiNb32-20	PN	Poland	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.