

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

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