

Material: EN 1.4859

Standard Specification for Steel Castings for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: EN 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	AS- Cast	
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		
Nickel	Ni %	31.000 - 33.000		
Niobium	Nb %	0.500 - 1.500		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	400 - 640
-	-	-	Yield Strength in Mpa	180 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
1.4859	EN	European Union	Casting
1.4859	DIN	Germany	Casting
GX10NiCrSiNb32-20	UNI	Italy	Casting
GX10NiCrSiNb32-20	EN	European Union	Casting
GX10NiCrSiNb32-20	DIN	Germany	Casting
GX10NiCrSiNb32-20	DIN	Germany	Casting
GX10NiCrSiNb32-20	AFNOR NF	France	Casting

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