

# Material: DIN G X 40 NiCrSiNb 38-18

## Standard Specification for Heat Resisting Steel Castings

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** DIN G X 40 NiCrSiNb 38-18 Heat Resisting Steel Castings

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

**Grade Belongs to the Industry:** Casting

Chemical Composition		
Carbon	C %	0.300 -0.500
Silicon	Si %	1.000 - 2.500
Manganese	Mn %	1.500 max.
Phosphorus	P %	0.035 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	17.000 - 19.000
Nickel	Ni %	36.000 - 39000
Niobium	Nb %	1.200 - 1.800
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
	Soft Annealing, Cast

Mechanical Properties	
Tensile Strength in Mpa	400 min.
Yield Strength in Mpa	220 min.
Elongation in %	5 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4859	DIN	Germany	Casting
SA-351 CT15C	ASME	USA	Casting
G X 10 NiCrNb 32-20	DIN	Germany	Casting
N08151	UNS	USA	Casting
N08004	UNS	USA	Casting
1.4849	DIN	Germany	Casting
A351 CT15C	ASTM	USA	Casting

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