

Material: DIN G X 10 NiCrNb 32-20

Standard Specification for Steel Castings for Petroleum and Natural Gas Plants

Group: Ferrous Stainless Steel Alloys

Sub Group: DIN G X 10 NiCrNb 32-20 Steel Castings for Petroleum and Natural Gas Plants

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

Grade Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	0.050 - 0.150
Silicon	Si %	0.500 - 1.500
Manganese	Mn %	0.500 - 1.500
Phosphorus	P %	0.045 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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Soft Annealing, Cast

Mechanical Properties	
Tensile Strength in Mpa	440 - 640
Yield Strength in Mpa	175 min.
Elongation in %	20 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
G X 40 NiCrSiNb 38-18	DIN	Germany	Casting
SA-351 CT15C	ASME	USA	Casting
N08151	UNS	USA	Casting
N08004	UNS	USA	Casting
1.4849	DIN	Germany	Casting
A351 CT15C	ASTM	USA	Casting

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