

Material: ASTM A351 CT15C

Standard Specification for Castings, Austenitic, for Pressure-Containing Parts

Group: Ferrous Stainless Steel Alloys

Sub Group: ASTM A351 / 351M Castings, Austenitic, for Pressure-Containing Parts

Application: Intended for Valves, Pumps, General Engineering, Automobile 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 %	0.150 - 1.500
Phosphorus	P %	0.030 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	19.000 - 21.000
Nickel	Ni %	31.000 - 34.000
Niobium	Nb %	0.500 - 1.500
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
Solution Annealing	

Mechanical Properties	
Tensile Strength in Mpa	435 min
Yield Strength in Mpa	170 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
SA-351 CT15C	ASTM	USA	Casting
1.4859	DIN	Germany	Casting
G X 40NiCrSiNb 38-18	DIN	Germany	Casting
G X 10 NiCrNb 32-20	DIN	Germany	Casting
N08151	UNS	USA	Casting
N08004	UNS	USA	Casting
1.4849	DIN	Germany	Casting

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