

# Material: ASME SA-351 CT15C

## Standard Specification for Austenitic Steel Castings for Valves, Flanges, Fittings, and Other Pressure-Containing Parts

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** ASME SA-351 CT15C Austenitic Steel Castings for Valves, Flanges, Fittings, and Other Pressure-Containing Parts

**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 %	0.150 - 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	
	Soft Annealing, Cast

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
1.4859	DIN	Germany	Casting
G X 40 NiCrSiNb 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
A351 CT15C	ASTM	USA	Casting

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**Customer Care:** +91-99090 45075 **Email:** [info@icastllp.com](mailto:info@icastllp.com)



+91-99090 45075



[info@icastllp.com](mailto:info@icastllp.com)



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India