

# Material: ASME SA-351 CN7M

## 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 CN7M 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 %	0.070 max.
Silicon	Si %	1.500 max.
Manganese	Mn %	1.500 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Chromium	Cr %	19.000 - 22.000
Nickel	Ni %	27.500 - 30.500
Molybdenum	Mo %	2.000 - 3.000
Copper	Cu %	3.000 - 4.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
Solution Annealing	

Mechanical Properties	
Tensile Strength in Mpa	425 min.
Yield Strength in Mpa	170 min.
Elongation in %	35 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4500 DIN	DIN	Germany	Casting
SCS 23	JIS	Japan	Centrifugal Cast, Steel, Pipes.
G X 5 NiCrCuMo 29-21	UNI	Italy	Casting
F.8417	UNE	Spain	Casting
A744 CN7M	ASTM	USA	Casting
A743 CN7M	ASTM	USA	Casting
A351 CN7M	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