

# Material: ASME SA-217 Grade WC11

## Standard Specification for Martensitic Stainless Steel and Alloy Steel Castings for Pressure Containing Parts Suitable for High Temperature Service

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** ASME SA-217 Grade WC11 Martensitic Stainless Steel and Alloy Steel Castings for Pressure Containing Parts Suitable for High Temperature Service

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

**Grade Belongs to the Industry:** Casting

Chemical Composition		
Carbon	C %	0.150 - 0.210
Silicon	Si %	0.300 - 0.600
Manganese	Mn %	0.500 - 0.800
Phosphorus	P %	0.020 max.
Sulphur	S %	0.015 max.
Chromium	Cr %	1.000 - 1.500
Molybdenum	Mo %	0.450 - 0.650
Nickel	Ni %	0.500 max.
Vanadium	V %	0.030 max.
Aluminium	Al %	0.010 max.
Copper	Cu %	0.350 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment	
Normalizing or Annealing or Hardening + Tempering	
Tensile Strength in Mpa	550 - 725
Yield Strength in Mpa	345 min.
Elongation in %	18 min.
Reduction of Area in %	45 min.
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J11872	UNS	USA	Casting
A217 Grade WC11	ASTM	USA	Casting
G 17 CrMo 5-5	AFNOR NF	France	Casting
A426 Grade CP11	ASTM	USA	Steel
621	BS	British	Plate
G S 17 CrMo 5-5	DIN	Germany	Casting
G 17 CrMo 5-5	EN	European Union	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