

## Material: ASME SA-217 Grade WC6

### 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:** SA-217 Grade WC6 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			Heat Treatment	
Carbon	C %	0.050 - 0.200	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.500 - 0.800		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.045 max.		
Chromium	Cr %	1.000 - 1.500		
Nickel	Ni %	0.500 max.		
Molybdenum	Mo %	0.450 - 0.650		
Tungsten	W %	0.100 max.	Mechanical Properties	
Copper	Cu %	0.500 max.	Tensile Strength in Mpa	485 - 655
Iron	Fe %	Balance	Yield Strength in Mpa	275 min.
-	-	-	Elongation in %	20 min.
-	-	-	Reduction of Area in %	35 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
J12072	UNS	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	
A217 Grade WC6	ASTM	USA	Casting	

**Disclaimer:** All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

**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