

Material: ASME SA217 Grade WC4

Standard Specification for Martensitic Stainless Steel and Alloy Steel Casting

Group: Ferrous Mild Steel Alloys

Sub Group: ASME SA217 Grade WC4 Martensitic Stainless Steel and Alloy Steel Casting

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 %	0.035 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	0.500 - 0.800		
Nickel	Ni %	0.700 - 1.100		
Molybdenum	Mo %	0.450 - 0.650		
Copper	Cu %	0.500 max.		
Tungsten	W %	0.100 max.		
Iron	Fe %	Balance	Mechanical Properties Tensile Strength in Mpa 485 - 655 Yield Strength in Mpa 275 min. Elongation in % 20 min. Reduction of Area in % 35 min. Hardness in BHN - Impact in Joule -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J12082	UNS	USA	Casting
A487 Grade 11	ASTM	USA	Casting
SA487 Grade 11A	ASME	USA	Casting
SA487 Grade 11B	ASME	USA	Casting
A217 Grade WC4	ASTM	USA	Casting
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