

Material: ASTM A217 Grade WC5

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

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A217 / A217M Steel Castings, Martensitic Stainless and Alloy, 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	Normalising or Annealing or Hardening + Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.400 - 0.700		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.045 max.		
Chromium	Cr %	0.500 - 0.900		
Nickel	Ni %	0.600 - 1.000		
Molybdenum	Mo %	0.900 - 1.200		
Copper	Cu %	0.500 max.		
Tungsten	W %	0.100 max.		
other	Ot %	0.600 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	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J22000	UNS	USA	Casting
SA-217 Grade WC5	ASME	USA	Casting
A487 Grade 12	ASTM	USA	Casting
SA-487 Grade 12A	ASME	USA	Casting
SA-487 Grade 12B	ASME	USA	Casting
WC5	KS	Korea	Casting
WC5	NMX	Mexico	Casting

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