

Material - ASME SA-217 Grade WC9

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 WC9 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 - 0.180		
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.400 - 0.700		
Phosphorus	Р%	0.040 max.	Normalising or Annealing or Hardening + Tempering	
Sulphur	S %	0.045 max.		
Chromium	Cr %	2.000 - 2.750		
Nickel	Ni %	0.500 max.		
Molybdenum	Mo %	0.900 - 1.200		
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	-
-	-	-	Impac <mark>t in Joule</mark>	-

Cross Reference Table				
Material	Standard	Country Grade Belong to the Industry		
J21890	UNS	USA	Casting	
10 CrMo 9-10	AFNOR NF	France	Steel	
10 CrMo 9-10	DIN	Germany	Forging	
10 CrMo 9-10	EN	European Union	Casting	
10 CrMo 9-10	UNI	Italy	Casting	
622	BS	British	British	
A217 Grade WC9	ASTM	USA	Casting	

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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