

Material - ASTM A217 Grade WC1

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 %	0.250 max.	Normalising 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 %	0.350 max.		
Copper	Cu %	0.500 max.		
Nickel	Ni %	0.500 max.		
Molybdenum	Mo %	0.450 - 0.650	Mechanical Properties	
Tungsten	W %	0.100 max.	Tensile Strength in Mpa	450 - 620
other	Ot %	1.000 max.	Yield Strength in Mpa	240 min.
Iron	Fe %	Balance	Elongation in %	24 min.
-	-	-	Reduction of Area in %	35 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J12524	UNS	USA	Casting
SA-217 Grade WC1	ASME	USA	Casting
G 20 Mo 5	EN	European Union	Casting
SCPH 11	JIS	Japan	Casting
A352 Grade LC1	ASTM	USA	Casting
G 20 Mo 5	UNI	Italy	Casting
G 20 Mo 5	DIN	Germany	Casting

For any further inquiries, please do not hesitate to contact us. You may visit our website at AMTECH TECHNOCAST PVT. LTD., call us at [+91 9879817994](tel:+919879817994), or email us at manish@amtechtechnocast.com

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