



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

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		
Tungsten	W %	0.100 max.		
other	Ot %	1.000 max.	Mechanical Properties Tensile Strength in Mpa 450 - 620 Yield Strength in Mpa 240 min. Elongation in % 24 min. Reduction of Area in % 35 min. Hardness in BHN - Impact in Joule -	
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

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

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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

ONE STOP SOLUTION FOR METAL PARTS