



Material - JIS SCPH 11

Standard Specification for Low Alloy Steel

Group - Ferrous Mild Steel Alloys

Sub Group - JIS SCPH 11 Low Alloy Steel

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 %	0.040 max.		
Molybdenum	Mo %	0.450 - 0.650		
Chromium	Cr %	0.300 max.		
Nickel	Ni %	0.500 max.		
Tungsten	W %	0.100 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
Mechanical Properties				
Tensile Strength in Mpa		450 min.		
Yield Strength in Mpa		245 min.		
Elongation in %		22 min.		
Reduction of Area in %		35 min.		
Hardness in BHN		-		
Impact in Joule		-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA217 WC1	ASME	USA	Casting
G20 Mo 5	EN	European Union	Casting
J12524	UNS	USA	Casting
A352 LC1	ASTM	USA	Casting
G 20 MO5	DIN	Germany	Casting
G 20 MO5	UNI	Italy	Casting
A217 Grade WC1	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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