

Material: UNI G 20 MO5

Standard Specification for Special Low Alloy Steel Sand Castings

Group: Ferrous Mild Steel Alloys

Sub Group: UNI G 20 MO5 Special Low Alloy Steel Sand Castings

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.150 - 0.230	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.500 - 1.000		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.020 max.		
Molybdenum	Mo %	0.400 - 0.600		
Chromium	Cr %	0.300 max.		
Nickel	Ni %	0.400 max.		
Vanadium	V %	0.050 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	440 - 590
-	-	-	Yield Strength in Mpa	245 min.
-	-	-	Elongation in %	20 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	20 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA217 WC1	ASME	USA	Casting
G20 Mo 5	EN	European Union	Casting
SCPH 11	JIS	Japan	Casting
A352 LC1	ASTM	USA	Casting
G 20 MO5	DIN	Germany	Casting
J12524	UNS	USA	Casting
A217 Grade WC1	ASTM	USA	Casting

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