

Material: DIN G20Mo5

Standard Specification for Steel Castings for Pressure Purposes, Steel Grades for Use at Room Temperature and Elevated Temperatures

Group: Ferrous Mild Steel Alloys

Sub Group: DIN G20Mo5 Steel Castings for Pressure Purposes, Steel Grades for Use at Room Temperature and Elevated Temperatures

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 + Tempering 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		
Copper	Cu %	0.300 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 %	22 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	27 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-352 Grade LC1	ASME	USA	Casting
4422	AISI	USA	Bar
J12522	UNS	USA	Casting
243 - 430	BS	British	Forging
SCPL 11	JIS	Japan	Casting
G18Mo5	UNI	Italy	Casting
A352 LC1	ASTM	USA	Casting

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