

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	
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	
-	-	-	Normalizing + Tempering or Hardening + Tempering
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	

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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