

Material: AISI 4422

Standard Specification for Structural and Constructional Steels Bar

Group: Ferrous Mild Steel Alloys

Sub Group: AISI 4422 Structural and Constructional Steels Bar

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

Grade Belongs to the Industry: Bar

Chemical Composition		
Carbon	C %	0.200 - 0.250
Silicon	Si %	0.150 - 0.350
Manganese	Mn %	0.700 - 0.900
Phosphorus	P %	0.035 max.
Sulphur	S %	0.040 max.
Molybdenum	Mo %	0.350 - 0.450
Aluminium	Al %	0.020 max.
Copper	Cu %	0.350 max.
Niobium	Nb %	0.025 max.
Vanadium	V %	0.050 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing + Tempering or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	-
Yield Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	-
Hardness in BHN	170 - 212
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-352 Grade LC1	ASME	USA	Casting
J12522	UNS	USA	Casting
G20Mo5	DIN	Germany	Casting
243 - 430	BS	British	Forging
SCPL 11	JIS	Japan	Casting
G18Mo5	UNI	Italy	Casting
A352 LC1	ASTM	USA	Casting

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