

## Material: AISI 4422

### Standard Specification for Structural and Construction 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			Heat Treatment	
Carbon	C %	0.200 - 0.250	Normalizing + Tempering or Hardening + Tempering	
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	<b>Mechanical Properties</b> Tensile Strength in Mpa - Yield Strength in Mpa - Elongation in % - Reduction of Area in % - Hardness in BHN 170 - 212 Impact in Joule -	
-	-	-		
-	-	-		
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-	-	-		
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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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