

Material: UNS J12522

Standard Specification for Alloy Steel Casting

Group: Ferrous Mild Steel Alloys

Sub Group: UNS J12522 Alloy Steel Casting

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.250 max.	Normalizing + Tempering or Hardening + Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.500 - 0.800		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.045 max.		
Molybdenum	Mo %	0.450 - 0.650		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 450 - 620 Yield Strength in Mpa 240 min. Elongation in % 24 min. Reduction of Area in % 35 min. Hardness in BHN - Impact in Joule -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-352 Grade LC1	ASME	USA	Casting
4422	AISI	USA	Bar
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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