

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.		
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.500 - 0.800	Normalising + Tempering or Hardening + Tempering	
Phosphorus	Р%	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	-
-	-	-	Impac <mark>t in Joule</mark>	-

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	

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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