

Material: ASTM A352 LC1

Standard Specification for Steel Castings, Ferritic and Martensitic, for Pressure-Containing Parts, Suitable for Low-Temperature Service

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A352 / A352M Steel Castings, Ferritic and Martensitic, for Pressure-Containing Parts, Suitable for Low-Temperature Service

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.	Normalising + 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	18 min. @ -59°C

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J12522	UNS	USA	Casting
SA 352 LC1	ASME	USA	Casting
4422	AISI	USA	Bar
G20MO5	DIN	Germany	Casting
240-430	BS	British	Forging
SCPL 11	JIS	Japan	Casting
G18Mo5	UNI	Italy	Casting

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