

Material: JIS SCPL 11

Standard Specification for Steel Castings for Low Temperature and High Pressure Service

Group: Ferrous Mild Steel Alloys

Sub Group: JIS SCPL 11 Steel Castings for Low Temperature and High Pressure 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.	Normalizing + Tempering or Hardening + Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.500 - 0.800		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	0.350 max.		
Molybdenum	Mo %	0.450 - 0.650		
Copper	Cu %	0.500 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	450 min.
-	-	-	Yield Strength in Mpa	245 min.
-	-	-	Elongation in %	21 min.
-	-	-	Reduction of Area in %	35 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

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
J12522	UNS	USA	Casting
G18Mo5	UNI	Italy	Casting
A352 LC1	ASTM	USA	Casting

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