

Material: JIS SCPL 21

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

Group: Ferrous Mild Steel Alloys

Sub Group: JIS SCPL 21 Low Alloy 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.		
Nickel	Ni %	2.000 - 3.000		
Copper	Cu %	0.500 max.		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	480 min.
-	-	-	Yield Strength in Mpa	275 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 LC2	ASME	USA	Casting
1.5635	DIN	Germany	Steel
G22Ni10	UNI	Italy	Casting
G9Ni10	AFNOR NF	France	Casting
J22500	UNS	USA	Casting
F.8373	UNE	Spain	Casting
A352 LC2	ASTM	USA	Casting

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