



## Material - JIS SCPL 31

Standard Specification for Low alloy steel castings for low temperature and high pressure service

**Group - Ferrous Mild Steel Alloys** 

Sub Group - JIS SCPL 31 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 %	0.150 max.		
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.500 - 0.800		
Phosphorus	Р%	0.040 max.	Normalising or Annealing or Hardening + Tempering	
Sulphur	S %	0.040 max.		
Chromium	Cr %	0.350 max.		
Nickel	Ni %	3.000 - 4.000		
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	
BL2	BS	British	Casting	
GS-10 Ni 14	DIN	Germany	Casting	
G 9 Ni 14	EN	European Union	Casting	
Ao 10 Ni 14	MSZ	Hungary	Casting	
G9Ni14	UNI	Italy	Steel	
J31550	UNS	USA	Casting	
A757 B2N B2Q	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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