

Material: JIS SCW 550

Standard Specification for Steel Castings for Pressure Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: JIS SCW 550 Steel Castings for Pressure Purposes

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.220 max.	Normalizing or Quenching or Solution Annealing	
Silicon	Si %	0.800 max.		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	0.500 max.		
Molybdenum	Mo %	0.300 max.		
Nickel	Ni %	2.500 max.		
Vanadium	V %	0.200 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	550 min.
-	-	-	Yield Strength in Mpa	355 min.
-	-	-	Elongation in %	18 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	-
-	-	-	Impact in Joule	27 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN 10213 G20Mn5	BS	British	Plate, Tubes and Forging
1.6220	ISO	International	Casting
G20Mn5	ISO	International	Casting
GS-20 Mn 5	DIN	Germany	Casting
SCC 3	JIS	Japan	Casting
SCPH 11-CF	JIS	Japan	Casting
SCW 520-CF	JIS	Japan	Casting

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Customer Care: +91-99090 45075 Email: info@icastllp.com