

# Material: JIS SCW 520-CF

## Standard Specification for Steel Castings for Pressure Purposes

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** JIS SCW 520-CF Steel Castings for Pressure Purposes

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

**Grade Belongs to the Industry:** Casting

Chemical Composition		
Carbon	C %	0.200 max.
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.
Nickel	Ni %	0.500 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Quenching or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	520 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 550	JIS	Japan	Casting

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