

Material: JIS 200-400 W

Standard Specification for Cast Carbon Steels for General Engineering Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: JIS 200-400 W Cast Carbon Steels for General Engineering Purposes

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

Grade Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	0.250 max.
Silicon	Si %	0.600 max.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.035 max.
Sulphur	S %	0.035 max.
Chromium	Cr %	0.350 max.
Nickel	Ni %	0.400 max.
Molybdenum	Mo %	0.150 max.
Vanadium	V %	0.050 max.
Copper	Cu %	0.400 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Normalizing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	400 - 550
Yield Strength in Mpa	200 min.
Elongation in %	25 min.
Reduction of Area in %	40 min.
Hardness in BHN	-
Impact in Joule	45 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J13052	UNS	USA	Casting
6120	AISI	USA	Forging, Bar, Wire, and Shape
B 2	BS	British	Forging
B 4	BS	British	Forging
B 5	BS	British	Forging
B 6	BS	British	Forging
A732 5N	ASTM	USA	Casting

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