

## 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			Heat Treatment	
Carbon	C %	0.250 max.	Annealing or Normalizing or Hardening + Tempering	
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	<b>Mechanical Properties</b> 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	
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-	-	-		
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-	-	-		
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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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