

Material: JIS 230 - 450 W

Standard Specification for Cast Carbon Steels for General Engineering Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: JIS 230 - 450 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 %	1.200 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.
Copper	Cu %	0.400 max.
Vanadium	V %	0.050 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Normalizing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	450 - 600
Yield Strength in Mpa	230 min.
Elongation in %	22 min.
Reduction of Area in %	31 min.
Hardness in HB	-
Impact in Joule	45 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.0457	EN	European Union	Pipes
1.0484	DIN	Germany	Pipes
13030	CSN	Czech Republic	Steel
20MB5	AFNOR NF	France	Cold Rolled, Strip
J13005	UNS	USA	Casting
3	AS	Australia	Hot Rolled Bar
A487 2A	ASTM	USA	Casting

Disclaimer: All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

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