

# Material: ASTM A 216 Grade WCB

## Standard Specification for Steel Castings, Carbon, Suitable for Fusion for High-Temperature Service

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** ASTM A 216 Grade WCB Steel Castings, Carbon, Suitable for Fusion for High-Temperature Service

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

**Grade Belongs to the Industry:** Casting

Chemical Composition		
Carbon	C %	0.300 max.
Silicon	Si %	0.600 max.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.035 max.
Sulphur	S %	0.035 max.
Chromium	Cr %	0.500 max.
Molybdenum	Mo %	0.200 max.
Nickel	Ni %	0.500 max.
Copper	Cu %	0.300 max.
Vanadium	V %	0.030 max.
Other	Ot %	1.000 max.
Niobium	Nb %	0.500 max.
Iron	Fe %	Balance
-	-	-
-	-	-

Heat Treatment	
Normalizing or Quenching or Solution Annealing	

Mechanical Properties	
Tensile Strength in Mpa	485 - 655
Yield Strength in Mpa	250 min.
Elongation in %	22 min.
Reduction of Area in %	35 min.
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN 10213 GP240GH	BS	British	Plate, Tubes and Forging
A 420 C-M	AFNOR NF	France	Pump, Valve and Fitting
A 420 M	AFNOR NF	France	Pump, Valve and Fitting
Ao 17 CrMoV	MSZ	Hungary	Plate, Tubes and Forging
SCPH 1	JIS	Japan	Plate, Tubes and Forging
GP 240 GH	UNE	Spain	Plate, Tubes and Forging
1.0619	EN	European Union	Plate, Tubes and Forging

**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](mailto:info@icastllp.com)



+91-99090 45075



[info@icastllp.com](mailto:info@icastllp.com)



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India