

## 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			Heat Treatment	
Carbon	C %	0.300 max.	Normalizing or Quenching or Solution Annealing	
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.	Mechanical Properties	
Vanadium	V %	0.030 max.	Tensile Strength in Mpa	485 - 655
Other	Ot %	1.000 max.	Yield Strength in Mpa	250 min.
Niobium	Nb %	0.500 max.	Elongation in %	22 min.
Iron	Fe %	Balance	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

**For any further inquiries, please do not hesitate to contact us. You may visit our website at [AMTECH TECHNOCAST PVT. LTD.](http://AMTECH TECHNOCAST PVT. LTD.), call us at [+91 9879817994](tel:+919879817994), or email us at [manish@amtechtechnocast.com](mailto:manish@amtechtechnocast.com)**

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