



## Material - ASTM A 216 Grade WCC

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

**Group - Ferrous Mild Steel Alloys**

**Sub Group - ASTM A 216 Grade WCC 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 %	0.250 max.	Normalizing or Quenching or Solution Annealing	
Silicon	Si %	0.600 max.		
Manganese	Mn %	1.200 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.	<b>Mechanical Properties</b> Tensile Strength in Mpa   485 - 655 Yield Strength in Mpa   275 min. Elongation in %   22 min. Reduction of Area in %   35 min. Hardness in BHN   - Impact in Joule   -	
Niobium	Nb %	0.020 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN 10213 GP280GH	BS	British	Plate, Tubes and Forging
SCPH 2	JIS	Japan	Plate, Tubes and Forging
SCPL 1	JIS	Japan	Plate, Tubes and Forging
GP 280 GH	DIN	Germany	Plate, Tubes and Forging
GP 280 GH	MSZ	Hungary	Plate, Tubes and Forging
GP 280 GH	UNI	Italy	Plate, Tubes and Forging
GP 280 GH	UNE	Spain	Plate, Tubes and Forging

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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