

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		
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 %	0.500 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 %	0.020 max.
Iron	Fe %	Balance
-	-	-
-	-	-

Heat Treatment	
Normalizing or Quenching or Solution Annealing	

Mechanical Properties	
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	-

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

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