

# Material: BS EN 10213 GP280GH

## Standard Specification for Steel Castings for Pressure Purposes

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** BS EN 10213 GP280GH Steel Castings for Pressure Purposes

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

**Grade Belongs to the Industry:** Plate, Tubes and Forging

Chemical Composition		
Carbon	C %	0.180 - 0.250
Silicon	Si %	0.600 max.
Manganese	Mn %	0.800 - 1.200
Phosphorus	P %	0.030 max.
Sulphur	S %	0.020 max.
Chromium	Cr %	0.300 max.
Molybdenum	Mo %	0.120 max.
Nickel	Ni %	0.400 max.
Copper	Cu %	0.300 max.
Vanadium	V %	0.030 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Quenching or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	280 min.
Yield Strength in Mpa	250 min.
Elongation in %	-
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	27 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SCPH 2	JIS	Japan	Plate, Tubes and Forging
SCPL 1	JIS	Japan	Plate, Tubes and Forging
A 216 Grade WCC	ASTM	USA	Casting
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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