

Material: UNI GP 280 GH

Standard Specification for Steel Castings for Pressure Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: UNI GP 280 GH 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	480 - 640
Yield Strength in Mpa	280 min.
Elongation in %	22 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	27 J @ RT

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
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	UNE	Spain	Plate, Tubes and Forging

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