

Material: MSZ Ao 17 CrMoV

Standard Specification for Steel Castings for Pressure Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: MSZ Ao 17 CrMoV 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 %	0.140 - 0.200
Silicon	Si %	0.300 - 0.600
Manganese	Mn %	0.600 - 0.900
Phosphorus	P %	0.030 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	1.200 - 1.700
Molybdenum	Mo %	0.900 - 1.200
Nickel	Ni %	0.400 max.
Copper	Cu %	0.300 max.
Vanadium	V %	0.200 - 0.400
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Quenching or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	640 - 750
Yield Strength in Mpa	440 min.
Elongation in %	15 min.
Reduction of Area in %	30 min.
Hardness in HB	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN 10213 GP240GH	BS	British	Plate, Tubes and Forging
A 216 Grade WCB	ASTM	USA	Casting
A 420 C-M	AFNOR NF	France	Pump, Valve and Fitting
A 420 M	AFNOR NF	France	Pump, Valve and Fitting
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

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