

# 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			Heat Treatment	
Carbon	C %	0.140 - 0.200	Normalizing or Quenching or Solution Annealing	
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	<b>Mechanical Properties</b> 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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