

Material: BS 245

Standard Specification for Steel Castings for Pressure Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: BS 245 Steel Castings for Pressure Purposes

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.200 max.	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.200 - 0.600		
Manganese	Mn %	0.500 - 1.000		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	0.250 max.		
Nickel	Ni %	0.400 max.		
Molybdenum	Mo %	0.450 - 0.650		
Copper	Cu %	0.300 max.		
Other	Ot %	0.800 max.		
Iron	Fe %	Balance	Mechanical Properties Tensile Strength in Mpa 460 min. Yield Strength in Mpa 260 min. Elongation in % 18 min. Reduction of Area in % - Hardness in BHN - Impact in Joule 20 J @ RT	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.8872	DIN	Germany	Steel
16 Mo 5	STAS	Romania	Plate
J12523	UNS	USA	Casting
C 1	MSZ	Hungary	Steel
FS 12 MD 4	AFNOR NF	France	Wire, Rod and Coil
G18Mo5	UNI	Italy	Casting
A356 2	ASTM	USA	Casting

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