

Material: ASTM A 352 J42215

Standard Specification for Steel Castings for Pressure Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A 352 J42215 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 %	0.220 max.	Normalizing or Quenching or Solution Annealing	
Silicon	Si %	0.500 max.		
Manganese	Mn %	0.550 - 0.750		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.045 max.		
Chromium	Cr %	1.350 - 1.850		
Molybdenum	Mo %	0.300 - 0.600		
Nickel	Ni %	2.500 - 3.500		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	725 - 895
-	-	-	Yield Strength in Mpa	550 min.
-	-	-	Elongation in %	18 min.
-	-	-	Reduction of Area in %	30 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN 10213 G17NiCrMo13-6	BS	British	Plate, Tubes and Forging
G17NiCrMo13-6	ISO	International	Casting
1.6781	ISO	International	Casting
A 352 Grade LC2-1	ASTM	USA	Casting
G 17 NiCrMo13 6	ONORM	Australia	Casting
G 17 NiCrMo13 6	NBN	Belgium	Casting
G 17 NiCrMo13 6	BDS	Bulgaria	Casting

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