

# 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		
Carbon	C %	0.220 max.
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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Quenching or Solution Annealing

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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