

# Material: ASTM A 217 J42045

## Standard Specification for Steel Castings for Pressure Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** ASTM A 217 J42045 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 Quenching or Solution Annealing	
Silicon	Si %	0.750 max.		
Manganese	Mn %	0.500 - 0.800		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.045 max.		
Chromium	Cr %	4.000 - 6.500		
Molybdenum	Mo %	0.450 - 0.650		
Copper	Cu %	0.500 max.		
Tungsten	W %	0.100 max.		
Other	Ot %	1.000 max.		
Iron	Fe %	Balance	<b>Mechanical Properties</b> Tensile Strength in Mpa 620 - 795 Yield Strength in Mpa 415 min. Elongation in % 18 min. Reduction of Area in % 35 min. Hardness in BHN - Impact in Joule 27 J @ RT	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN 10213 GX15CrMo5	BS	British	Plate, Tubes and Forging
GX15CrMo5	ISO	International	Casting
1.7365	ISO	International	Casting
SCPH 61	JIS	Japan	Casting
A 217 Grade C5	ASTM	USA	Casting
1.7365	BS	British	Casting
GX 15 CrMo 5	SS	Sweden	Casting

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