

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		
Carbon	C %	0.200 max.
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
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Quenching or Solution Annealing

Mechanical Properties	
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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