



## 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.		
Silicon	Si %	0.750 max.	Normalizing or Quenching or Solution Annealing	
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.	Mechanical Properties	
Other	Ot %	1.000 max.	Tensile Strength in Mpa	620 - 795
Iron	Fe %	Balance	Yield Strength in Mpa	415 min.
-	-	-	Elongation in %	18 min.
-	-	-	Reduction of Area in %	35 min.
-	-	-	Hardn <mark>ess in BH</mark> N	-
-	-	-	Impac <mark>t in Joule</mark>	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		

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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