



## Material - UNS J12073

### Standard Specification for Alloy Steel Casting

Group - Ferrous Mild Steel Alloys

Sub Group - UNS J12073 Alloy Steel Casting

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.	Normalising or Annealing or Hardening + Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.500 - 0.800		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	1.000 - 1.500		
Nickel	Ni %	0.500 max.		
Molybdenum	Mo %	0.450 - 0.650		
Tungsten	W %	0.100 max.		
Copper	Cu %	0.500 max.		
Iron	Fe %	Balance	<b>Mechanical Properties</b> Tensile Strength in Mpa   485 min. Yield Strength in Mpa   310 min. Elongation in %   22 min. Reduction of Area in %   35 min. Hardness in BHN   - Impact in Joule   -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
369 G-17 CrMo 5-5	SFS	Finland	Casting
621	BS	British	Plate
A541 G. 11 Class 4	ASTM	USA	Forging
G 17 CrMo 5-5	UNI	Italy	Casting
A217 WC11	ASTM	USA	Casting
A217 WC6	ASTM	USA	Casting
A356 6	ASTM	USA	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](mailto:marketing@gravitycastindia.com)**

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