

## Material - UNS J03001

## Standard Specification for Carbon Steel Casting

**Group - Ferrous Mild Steel Alloys** 

Sub Group - UNS J03001 Carbon 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 %	0.300 max.		
Silicon	Si %	0.800 max.		
Manganese	Mn %	0.700 max.		
Phosphorus	Р%	0.050 max.	Normalising or Annealing or Hardening + Tempering	lardening + Tempering
Sulphur	S %	0.060 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	450 min.
-	-	-	Yield Strength in Mpa	240 min.
-	-	-	Elongation in %	24 min.
-	-	-	Reduction of Area in %	35 min.
-	-	-	Hardn <mark>ess in BH</mark> N	-
-	-	-	Impac <mark>t in Joule</mark>	-

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
A27 Grade N-1	ASTM	USA	Casting	
A27 Grade U-60-30	ASTM	USA	Casting	
A27 Grade 60-30	ASTM	USA	Casting	
A27 Grade 65-35	ASTM	USA	Casting	
A27 Grade 70-36	ASTM	USA	Casting	
A27 Grade 70-40	ASTM	USA	Casting	
A27 Grade N-2	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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

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