



Material - UNS J02501

Grade Belongs to the Industry - Casting

Standard Specification for Carbon Steel Casting

Group - Ferrous Mild Steel Alloys
Sub Group - UNS J02501 Carbon Steel Casting
Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Chemical Composition			Heat Treatment	
Carbon	C %	0.250 max.		
Silicon	Si %	0.800 max.		
Manganese	Mn %	1.200 max.	Normalising or Annealing or Hardening + Tempering	
Phosphorus	Р%	0.050 max.		
Sulphur	S %	0.060 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-	Mechanical Properties	
-	/-	-	Tensile Strength in Mpa	485 min.
-	-		Yield Strength in Mpa	275 min.
-	-	-	Elongation in %	22 min.
-	-	-	Reduction of Area in %	30 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

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

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