



Material - UNS J03501

Standard Specification for Carbon Steel Casting

Group - Ferrous Mild Steel Alloys

Sub Group - UNS J03501 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 %	0.350 max.	Normalising or Annealing or Hardening + Tempering	
Silicon	Si %	0.800 max.		
Manganese	Mn %	0.700 max.		
Phosphorus	P %	0.050 max.		
Sulphur	S %	0.060 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
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Mechanical Properties				
Tensile Strength in Mpa		485 min.		
Yield Strength in Mpa		250 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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