



Material - UNS J04002

Standard Specification for Carbon Steel Casting

Group - Ferrous Mild Steel Alloys

Sub Group - UNS J04002 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 - 0.450	Annealing or Normalising or Hardening + Tempering	
Silicon	Si %	0.200 - 1.000		
Manganese	Mn %	0.700 - 1.000		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.045 max.		
Chromium	Cr %	0.300 max.		
Nickel	Ni %	0.500 max.		
Copper	Cu %	0.500 max.		
Tungsten	W %	0.100 max.		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 517 min. Yield Strength in Mpa 331 min. Elongation in % 25 min. Reduction of Area in % - Hardness in BHN - Impact in Joule -	
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-	-	-		
-	-	-		
-	-	-		
-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1040.0000	AISI	USA	Forging, Bar, Wire, and Shape
DIN 1.1190	DIN	Germany	Steel
A 3	BS	British	Casting
42CD4M	AFNOR NF	France	Casting
A732 3Q	ASTM	USA	Casting
A732 1Q	ASTM	USA	Casting
A732 3A	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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