



Material - UNS J03012

Standard Specification for Carbon Steel Casting

Group - Ferrous Mild Steel Alloys
Sub Group - UNS J03012 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 %	0.280 - 0.340	As- Cast or Normalising or Annealing or Hardening + Tempering	
Silicon	Si %	0.300 - 0.600		
Manganese	Mn %	0.500 - 0.900		
Phosphorus	P %	0.040 max.		•
Sulphur	S %	0.040 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-	Mechanical Properties	
-	/ -	-	Tensile Strength in Mpa	470 min.
-	-	-	Yield Strength in Mpa	260 min.
-	-	-	Elongation in %	20 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	137
-	-	-	Impac <mark>t in Joule</mark>	75 J @ RT

Cross Reference Table				
Material	Standard	Country Grade Belong to the Industry		
1030.0000	AISI	USA	Bar, Wire, Tube and Forging	
1030	SAE	USA	Bar, Wire, Tube and Forging	
1030	AS	Australia	Bar, Wire, Tube and Forging	
1030	AMS	USA	Bar, Wire, Tube and Forging	
A915 Grade SC 1030	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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