

Material: UNS J02508

Standard Specification for Carbon Steel Casting

Group: Ferrous Mild Steel Alloys

Sub Group: UNS J02508 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 %	0.220 - 0.280	As- Cast or Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.300 - 0.600		
Manganese	Mn %	0.400 - 0.800		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
-	-	-	Tensile Strength in Mpa	379 min.
-	-	-	Yield Strength in Mpa	248 min.
-	-	-	Elongation in %	22 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1025.0000	AISI	USA	Bar, Wire, Tube and Forging
1025	SAE	USA	Bar, Wire, Tube and Forging
S1025	AS	Australia	Bar, Wire, Tube and Forging
1025	AMS	USA	Bar, Wire, Tube and Forging
A915 Grade SC 1025	ASTM	USA	Casting
-	-	-	-
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Customer Care: +91-99090 45075 Email: info@icastllp.com