



Material - AS S1025

Standard Specification for Carbon Steels and Carbon-Manganese Steels Forgings

Group - Ferrous Stainless Steel Alloys

Sub Group - AS S1025 Carbon Steels and Carbon-Manganese Steels Forgings

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Bar, Wire, Tube and Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.220 - 0.280	As- Cast or Normalising or Annealing or Hardening + Tempering	
Silicon	Si %	0.350 max.		
Manganese	Mn %	0.300 - 0.600		
Phosphorus	P %	0.050 max.		
Sulphur	S %	0.050 max.		
Chromium	Cr %	0.300 max.		
Nickel	Ni %	0.350 max.		
Molybdenum	Mo %	0.100 max.		
Copper	Cu %	0.350 max.		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 379 - 862 Yield Strength in Mpa 220 min. Elongation in % 13 min Reduction of Area in % 40 - 50 Hardness in HB 116 - 126 Impact in Joule -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J02508	UNS	USA	Casting
1025.0000	AISI	USA	Bar, Wire, Tube and Forging
1025.0000	SAE	USA	Bar, Wire, Tube and Forging
1025.0000	AMS	USA	Bar, Wire, Tube and Forging
A915 Grade SC 1025	ASTM	USA	Casting
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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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