

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		
Carbon	C %	0.220 - 0.280
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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As- Cast or Normalizing or Annealing or Hardening + Tempering

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	-

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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-	-	-	-

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