

## Material: ASTM A 29 1025

### Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel and bar

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** ASTM A 29 1025 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel and bar

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

**Grade Belongs to the Industry:** Steel and Bar

Chemical Composition			Heat Treatment	
Carbon	C %	0.220 - 0.280	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.300 - 0.600		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.050 max.		
Niobium	Nb %	0.025 min.		
Silicon	Si %	0.100 max.		
Aluminium	Al %	0.020 min.		
Boron	B %	0.0005 - 0.003		
Copper	Cu %	0.200 min.	Mechanical Properties	
Vanadium	V %	0.050 min.	Tensile Strength in Mpa	365 - 896
Iron	Fe %	Balance	Yield Strength in Mpa	205 min.
-	-	-	Elongation in %	5 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
G10250	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1025	SAE	USA	Steel, Sheet, Strip and Plate
1025	AISI	USA	Steel, Sheet, Strip and Plate
A 1040 1025	ASTM	USA	Steel
A 108 Grade 1015	ASTM	USA	Steel and Bar
A 29 M1025	ASTM	USA	Steel and Bar
A 510 1025	ASTM	USA	Wire Rod and Round Wire

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