

## Material: ASTM A 1040 1060

### Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled Steel

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** ASTM A 1040 1060 Carbon Steel Compositions For Forging To Hot-Rolled Steel

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

**Grade Belongs to the Industry:** Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.550 - 0.650	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.600 - 0.900		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.035 max.		
Boron	B %	0.0005 - 0.003		
Copper	Cu %	0.200 min.		
Silicon	Si %	0.100 max.		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	620 - 680
-	-	-	Yield Strength in Mpa	370 min.
-	-	-	Elongation in %	10 min.
-	-	-	Reduction of Area in %	30 - 45
-	-	-	Hardness in HB	183 - 201
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10600	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1060	SAE	USA	Steel
1060	AISI	USA	Steel and Tubing
A 29 1060	ASTM	USA	Steel and Bar
A 510 1060	ASTM	USA	Wire Rod, Round Rod and Steel
A 513 Grade 1060	ASTM	USA	Steel and Tubing
A 576 10L60	ASTM	USA	Bar

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