

# Material: ASTM A 513 Grade 1060

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

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** ASTM A 513 Grade 1060 Carbon Steel Compositions For Forging To Hot-Rolled Steel and Tubing

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

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

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 %	0.040 max.		
Sulphur	S %	0.050 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 1040 1060	ASTM	USA	Steel
A 29 1060	ASTM	USA	Steel and Bar
A 510 1060	ASTM	USA	Wire Rod, Round Rod and Steel
A 576 10L60	ASTM	USA	Bar

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