

## Material: ASTM A 576 10L53

### 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 576 10L53 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 %	0.480 - 0.550	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.700 - 1.000		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.050 max.		
Boron	B %	0.0008 max.		
Copper	Cu %	0.200 max.		
Silicon	Si %	0.100 max.		
Lead	Pb %	0.150 - 0.350		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	770 min.
-	-	-	Yield Strength in Mpa	-
-	-	-	Elongation in %	12 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	220 - 260
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10530	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1053	SAE	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1053	AISI	USA	Steel and Bar
A 1040 1053	ASTM	USA	Steel
A 29 1053	ASTM	USA	Steel and Bar
A 510 1053	ASTM	USA	Wire Rod, Round Rod and Steel
-	-	-	-

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