

## Material: SAE 1075

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

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** SAE 1075 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel

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

**Grade Belongs to the Industry:** Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.700 - 0.800	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.400 - 0.700		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.035 max.		
Boron	B %	0.0005 - 0.003		
Chromium	Cr %	0.150 max.		
Copper	Cu %	0.200 min.		
Molybdenum	Mo %	0.060 max.		
Nickel	Ni %	0.200 max.		
Lead	Pb %	0.150 - 0.350		
Iron	Fe %	Balance	<b>Mechanical Properties</b> Tensile Strength in Mpa 1025 min. Yield Strength in Mpa 696 min. Elongation in % 17.6 min. Reduction of Area in % 58.2 min. Hardness in BHN - Impact in Joule 21.7 J @ RT	
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-	-	-		
-	-	-		
-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10750	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1075	AISI	USA	Steel and Bar
A 1040 1075	ASTM	USA	Steel
A 29 1075	ASTM	USA	Steel and Bar
A 510 1075	ASTM	USA	Steel
A 713 G10750	ASTM	USA	Steel
A 713 Grade 1075	ASTM	USA	Steel

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