



## Material - AISI 1075

**Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel and Bar**

**Group - Ferrous Mild Steel Alloys**

**Sub Group - AISI 1075 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 %	0.700 - 0.800	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.400 - 0.700		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.050 max.		
Boron	B %	0.0005 - 0.003		
Aluminium	Al %	0.020 min.		
Copper	Cu %	0.200 min.		
Niobium	Nb %	0.015 min.		
Silicon	Si %	0.100 max.		
Vanadium	V %	0.020 min.		
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	SAE	USA	Steel
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

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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