



## Material - AISI 1043

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

Group - Ferrous Mild Steel Alloys

Sub Group - AISI 1043 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Bar

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

Grade Belongs to the Industry - Bar

Chemical Composition			Heat Treatment	
Carbon	C %	0.400 - 0.470	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 %	0.0005 - 0.003		
Aluminium	Al %	0.020 max.		
Copper	Cu %	0.200 max.		
Niobium	Nb %	0.015 max.		
Silicon	Si %	0.100 max.		
Vanadium	V %	0.020 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	570 - 630
			Yield Strength in Mpa	310 min.
			Elongation in %	12 min.
			Reduction of Area in %	35 - 45
			Hardness in HB	163 - 179
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10430	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1043	SAE	USA	Steel
A 1040 1043	ASTM	USA	Steel
A 29 1043	ASTM	USA	Bar
A 510 1043	ASTM	USA	Wire Rod
A 576 10L43	ASTM	USA	Steel and Bar
A 830 1043	ASTM	USA	Plate and 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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