



Material - ASTM A 29 1043

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

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A 29 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		
Manganese	Mn %	0.700 - 1.000	As Raw or Annealing or Normalizing or Hardening and Tempering	
Phosphorus	P %	0.040 max.		alizing or Hardoning and
Sulphur	S %	0.050 max.		ŭ
Boron	В%	0.0005 - 0.003		
Copper	Cu %	0.200 max.		
Silicon	Si %	0.100 max.		
Aluminium	Al %	0.020 max.		
Niobium	Nb %	0.015 max.	Mechanical Properties	
Vanadium	V %	0.020 max.	Tensile Strength in Mpa	570 - 630
Iron	Fe %	Balance	Yield Strength in Mpa	310 min.
-	-	-	Elongation in %	12 min.
-	-	-	Reduction of Area in %	35 - 45
-	-	-	Hardn <mark>ess in HB</mark>	163 - 179
-	-	-	Impa <mark>ct in Joule</mark>	-

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		
1043	AISI	USA	Bar		
A 1040 1043	ASTM	USA	Steel		
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

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