

Material: ASTM A 29 1049

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 29 1049 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 %	0.460 - 0.530	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.600 - 0.900		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.050 max.		
Silicon	Si %	0.100 max.		
Boron	B %	0.0005 - 0.003		
Copper	Cu %	0.200 max.		
Aluminium	Al %	0.020 max.		
Niobium	Nb %	0.015 max.		
Vanadium	V %	0.020 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	600 - 670
-	-	-	Yield Strength in Mpa	330 min.
-	-	-	Elongation in %	10 min.
-	-	-	Reduction of Area in %	30 - 40
-	-	-	Hardness in HB	179 - 197
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10490	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1049	SAE	USA	Steel
1049	AISI	USA	Bar
A 830 G10490	ASTM	USA	Plate and Steel
A 830 1049	ASTM	USA	Plate and Steel
A 576 10L49	ASTM	USA	Steel
A 510 1049	ASTM	USA	Wire Rods, Round Wire and Steel

Disclaimer: All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

Customer Care: +91-99090 45075 Email: info@icastllp.com