



Material - ASTM A 576 10L49

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

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A 576 10L49 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 %	0.460 - 0.530		
Manganese	Mn %	0.600 - 0.900	As Raw or Annealing or Normalizing or Hardening and Tempering	
Phosphorus	P %	0.040 max.		alizing or Hardaning and
Sulphur	S %	0.050 max.		· ·
Silicon	Si %	0.100 max.		irig
Boron	В %	0.0005 - 0.003		
Copper	Cu %	0.200 max.		
Lead	Pb %	0.150 - 0.350		
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	-
Lead Iron	Pb % Fe %	0.150 - 0.350	Tensile Strength in Mpa Yield Strength in Mpa Elongation in % Reduction of Area in % Hardness in HB	600 - 670 330 min. 10 min. 30 - 40

Cross Reference Table					
Material	Standard	Country	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 29 1049	ASTM	USA	Steel and Bar		
A 510 1049	ASTM	USA	Wire Rods, Round Wire 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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