Material - SAE 1049

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

RAVITY CAST PVT. LTD. RAVITY GROUP OF COMPANIES

Group - Ferrous Mild Steel Alloys

Sub Group - SAE 1049 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	Р%	0.030 max.		lizing or Hardoning and
Sulphur	S %	0.035 max.		0
Boron	В%	0.0005 - 0.003		
Chromium	Cr %	0.150 max.		
Copper	Cu %	0.200 max.		
Molybdenum	Mo %	0.060 max.		
Nickel	Ni %	0.200 max.	Mechanical Properties	
Lead	Pb %	0.150 - 0.350	Tensile Strength in Mpa	600 - 670
Iron	Fe %	Balance	Yield Strength in Mpa	330 min.
	-	-	Elongation in %	10 min.
	-	-	Reduction of Area in %	30 - 40
-	-		Hardn <mark>ess in HB</mark>	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	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 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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