



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A 830 1042

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

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A 830 1042 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Plate and Steel

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

Grade Belongs to the Industry - Plate and Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.400 - 0.470	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.600 - 0.900		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.030 max.		
Silicon	Si %	0.150 - 0.400		
Iron	Fe %	Balance		
-	-	-		
-	-	-	Mechanical Properties Tensile Strength in Mpa 550 - 610 Yield Strength in Mpa 300 min. Elongation in % 12 min. Reduction of Area in % 35 - 45 Hardness in HB 163 - 179 Impact in Joule -	
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-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10420	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1042	SAE	USA	Steel
1042	AISI	USA	Bar
A 1040 1042	ASTM	USA	Steel
A 29 1042	ASTM	USA	Bar
A 510 1042	ASTM	USA	Wire Rod
A 576 10L42	ASTM	USA	Steel and Bar

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

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