



**GRAVITY CAST PVT. LTD.**  
**GRAVITY GROUP OF COMPANIES**

## Material - ASTM A 510 1043

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

**Group - Ferrous Mild Steel Alloys**

**Sub Group - ASTM A 510 1043 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Wire Rod**

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

**Grade Belongs to the Industry - Wire Rod**

Chemical Composition			Heat Treatment			
Carbon	C %	0.400 - 0.470	As Raw or Annealing or Normalizing or Hardening and Tempering			
Manganese	Mn %	0.700 - 1.000				
Phosphorus	P %	0.040 max.				
Sulphur	S %	0.050 max.				
Boron	B %	0.0008 max.				
Iron	Fe %	Balance				
-	-	-				
-	-	-	<b>Mechanical Properties</b>			
-	-	-			Tensile Strength in Mpa	570 - 630
-	-	-			Yield Strength in Mpa	310 min.
-	-	-			Elongation in %	12 min.
-	-	-			Reduction of Area in %	35 - 45
-	-	-			Hardness in HB	163 - 179
-	-	-			Impact in Joule	-
-	-	-				

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 29 1043	ASTM	USA	Bar
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](mailto: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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