



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A 510 1085

Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Wire Rods, Round Wire and Steel

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A 510 1085 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Wire Rods, Round Wire and Steel

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

Grade Belongs to the Industry - Wire Rods, Round Wire and Steel

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|---------------|---|-----------|
| Carbon | C % | 0.800 - 0.930 | 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. | | |
| Iron | Fe % | Balance | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| | | | Mechanical Properties | |
| | | | Tensile Strength in Mpa | 690 - 830 |
| | | | Yield Strength in Mpa | 460 min. |
| | | | Elongation in % | 10 min. |
| | | | Reduction of Area in % | 25 - 40 |
| | | | Hardness in HB | 192 - 248 |
| | | | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|---|
| Material | Standard | Country | Grade Belong to the Industry |
| G10850 | UNS | USA | Bars, Wire Rods, Plates, Strip, Sheets and Tubing |
| 1085 | SAE | USA | Steel |
| 1085 | AISI | USA | Plate and Steel |
| A 1040 1085 | ASTM | USA | Steel |
| A 682 G10850 | ASTM | USA | Steel and Strip |
| A 682 Grade 1085 | ASTM | USA | Steel and Strip |
| A 684 Grade 1085 | ASTM | USA | Steel and Strip |

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.

ONE STOP SOLUTION FOR METAL PARTS