



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A 512 Grade 1016

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

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A 512 Grade 1016 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Tubing

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

Grade Belongs to the Industry - Tubing

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|---------------|---|-----------|
| Carbon | C % | 0.130 - 0.180 | As Raw or Annealing or Normalizing or Hardening and Tempering | |
| Manganese | Mn % | 0.600 - 0.900 | | |
| Phosphorus | P % | 0.040 max. | | |
| Sulphur | S % | 0.045 max. | | |
| Iron | Fe % | Balance | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| | | | Mechanical Properties | |
| | | | Tensile Strength in Mpa | 462 - 689 |
| | | | Yield Strength in Mpa | 421 min. |
| | | | Elongation in % | 13 min. |
| | | | Reduction of Area in % | - |
| | | | Hardness in HRC | 70 - 100 |
| | | | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|---|
| Material | Standard | Country | Grade Belong to the Industry |
| G10160 | UNS | USA | Bars, Wire Rods, Plates, Strip, Sheets and Tubing |
| 1016 | SAE | USA | Bars, Wire Rods and Tubing |
| 1016 | AISI | USA | Tubing |
| A 1040 1016 | ASTM | USA | Steel |
| A 108 Grade 1016 | ASTM | USA | Steel and Bar |
| A 29 1016 | ASTM | USA | Steel and Bar |
| A 510 1016 | ASTM | USA | Wire Rods |

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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