



Material - SAE 1527

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

Group - Ferrous Mild Steel Alloys

Sub Group - SAE 1527 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Plate, Strip, Sheets and Tubing

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

Grade Belongs to the Industry - Plate, Strip, Sheets and Tubing

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|----------------|---|--|
| Carbon | C % | 0.220 - 0.290 | As Raw or Annealing or Normalizing or Hardening and Tempering | |
| Manganese | Mn % | 1.200 - 1.500 | | |
| Phosphorus | P % | 0.030 max. | | |
| Sulphur | S % | 0.035 max. | | |
| Boron | B % | 0.0005 - 0.003 | | |
| Chromium | Cr % | 0.150 max. | | |
| Copper | Cu % | 0.200 max. | | |
| Molybdenum | Mo % | 0.060 max. | | |
| Nickel | Ni % | 0.200 max. | | |
| Lead | Pb % | 0.150 - 0.350 | | |
| Iron | Fe % | Balance | Mechanical Properties Tensile Strength in Mpa 520 - 570 Yield Strength in Mpa 280 min. Elongation in % 12 min. Reduction of Area in % 35 - 40 Hardness in HB 149 - 163 Impact in Joule - | |
| - | - | - | | |
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| - | - | - | | |
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| Cross Reference Table | | | |
|-----------------------|----------|---------|---|
| Material | Standard | Country | Grade Belong to the Industry |
| G15270 | UNS | USA | Bars, Wire Rods, Plates, Strip, Sheets and Tubing |
| 1527 | AISI | USA | Steel |
| A 29 1527 | ASTM | USA | Steel and Bar |
| A 510 1527 | ASTM | USA | Wire Rod, Round Wire and Steel |
| A 576 15L27 | ASTM | USA | Steel and Bar |
| A 830 1527 | ASTM | USA | Plate and Steel |
| A 830 G15270 | 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

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