

Material: ASTM A 576 15L27

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

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A 576 15L27 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel and Bar

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

Grade Belongs to the Industry: Steel and Bar

| 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 % | 0.040 max. | | |
| Sulphur | S % | 0.050 max. | | |
| Boron | B % | 0.0005 - 0.003 | | |
| Lead | Pb % | 0.150 - 0.350 | | |
| Silicon | Si % | 0.100 max. | | |
| 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 | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|---|
| Material | Standard | Country | Grade Belong to the Industry |
| G15270 | UNS | USA | Bars, Wire Rods, Plates, Strip, Sheets and Tubing |
| 1527 | SAE | USA | Plate, 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 830 1527 | ASTM | USA | Plate and Steel |
| A 830 G15270 | ASTM | USA | Plate and Steel |

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