

Material: ASTM A 510 1524

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

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A 510 1524 Carbon Steel Compositions For Forging To Hot-Rolled 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 % | 0.190 - 0.250 | As Raw or Annealing or Normalizing or Hardening and Tempering | |
| Manganese | Mn % | 1.350 - 1.650 | | |
| Phosphorus | P % | 0.040 max. | | |
| Sulphur | S % | 0.050 max. | | |
| Iron | Fe % | Balance | | |
| - | - | - | | |
| - | - | - | Mechanical Properties | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | 510 - 570 |
| - | - | - | Yield Strength in Mpa | 280 min. |
| - | - | - | Elongation in % | 12 min. |
| - | - | - | Reduction of Area in % | 35 - 42 |
| - | - | - | Hardness in HB | 149 - 163 |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|---|
| Material | Standard | Country | Grade Belong to the Industry |
| G15240 | UNS | USA | Bars, Wire Rods, Plates, Strip, Sheets and Tubing |
| 1524 | SAE | USA | Steel |
| 1524 | AISI | USA | Steel and Bar |
| A 29 1524 | ASTM | USA | Steel and Bar |
| A 830 G15240 | ASTM | USA | Plate and Steel |
| A 513 Grade 1524 | ASTM | USA | Tubing |
| A 519 1524 | ASTM | USA | Tubing |

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