

Material: SAE 1074

Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled Steel

Group: Ferrous Mild Steel Alloys

Sub Group: SAE 1074 Carbon Steel Compositions For Forging To Hot-Rolled Steel

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

Grade Belongs to the Industry: Steel

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|----------------|---|--|
| Carbon | C % | 0.700 - 0.800 | As Raw or Annealing or Normalizing or Hardening and Tempering | |
| Manganese | Mn % | 0.500 - 0.800 | | |
| 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 min. | | |
| 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 650 - 720 Yield Strength in Mpa 400 min. Elongation in % 10 min. Reduction of Area in % 30 - 40 Hardness in HB 192 - 217 Impact in Joule - | |
| - | - | - | | |
| - | - | - | | |
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| - | - | - | | |
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| Cross Reference Table | | | |
|-----------------------|----------|---------|---|
| Material | Standard | Country | Grade Belong to the Industry |
| G10740 | UNS | USA | Bars, Wire Rods, Plates, Strip, Sheets and Tubing |
| 1074 | AISI | USA | Steel and Bar |
| A 1040 1074 | ASTM | USA | Steel |
| A 29 1074 | ASTM | USA | Steel and Bar |
| A 510 1074 | ASTM | USA | Steel |
| A 682 G10740 | ASTM | USA | Steel and Strip |
| A 682 Grade 1074 | ASTM | USA | Steel and Strip |

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