

Material: SAE 1065

Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled Plate, Strip, Sheet and Tubing

Group: Ferrous Mild Steel Alloys

Sub Group: SAE 1065 Carbon Steel Compositions For Forging To Hot-Rolled Plate, Strip, Sheet and Tubing

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

Grade Belongs to the Industry: Plate, Strip, Sheet and Tubing

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|----------------|---|--|
| Carbon | C % | 0.600 - 0.700 | As Raw or Annealing or Normalizing or Hardening and Tempering | |
| Manganese | Mn % | 0.600 - 0.900 | | |
| 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 630 - 690 Yield Strength in Mpa 380 min. Elongation in % 10 min. Reduction of Area in % 30 - 45 Hardness in HB 187 - 207 Impact in Joule - | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |

| Cross Reference Table | | | |
|-----------------------|----------|---------|---|
| Material | Standard | Country | Grade Belong to the Industry |
| G10650 | UNS | USA | Bars, Wire Rods, Plates, Strip, Sheets and Tubing |
| 1065 | AISI | USA | Steel and Bar |
| A 830 G10650 | ASTM | USA | Plate and Steel |
| A 713 G10650 | ASTM | USA | Steel and wire |
| A 682 G10650 | ASTM | USA | Steel and Strip |
| A 682 Grade 1065 | ASTM | USA | Steel and Strip |
| A 684 Grade 1065 | ASTM | USA | Steel and Strip |

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