

Material: SAE 1013

Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Bars, To Wire Rods, Plates, Strip, Sheets and Tubing

Group: Ferrous Mild Steel Alloys

Sub Group: SAE 1013 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Bars, Wire Rods, Plates, Strip, Sheets and Tubing

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

Grade Belongs to the Industry: Bars, Wire Rods, Plates, Strip, Sheets and Tubing

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|----------------|---|----------|
| Carbon | C % | 0.110 - 0.160 | As Raw or Annealing or Normalizing or Hardening and Tempering | |
| Manganese | Mn % | 0.300 - 0.600 | | |
| 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. | | |
| Niobium | Nb % | 0.150 - 0.350 | | |
| Nickel | Ni % | 0.200 max. | | |
| | | | Mechanical Properties | |
| Lead | Pb % | 0.150 - 0.350 | Tensile Strength in Mpa | 370 Min. |
| Iron | Fe % | Balance | Yield Strength in Mpa | 310 min. |
| - | - | - | Elongation in % | 19 min. |
| - | - | - | Reduction of Area in % | 40 min. |
| - | - | - | Hardness in HB | 105 max. |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|---|
| Material | Standard | Country | Grade Belong to the Industry |
| G10130 | UNS | USA | Bars, Wire Rods, Plates, Strip, Sheets and Tubing |
| 1013 | AISI | USA | Bar |
| A 1040 1013 | ASTM | USA | Bars, Wire Rods, Plates, Strip, Sheets and Tubing |
| A 29 1013 | ASTM | USA | Bar |
| A 510 1013 | ASTM | USA | Wire Rod |
| SA-29 1013 | ASME | USA | Bar |
| K11430 | UNS | USA | Bars, Wire Rods, Plates, Strip, Sheets and Tubing |

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