

Material: SAE J403 | SAE J1397 UNS G10350 - Hot Rolled
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 J403 / SAE J1397 UNS G10350 - Hot Rolled 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 % | 0.280 - 0.380 | As Raw or Annealing or Normalizing or Hardening and Tempering |
| Manganese | Mn % | 0.600 - 0.900 | |
| Phosphorus | P % | 0.030 max. | |
| Sulphur | S % | 0.050 max. | |
| Iron | Fe % | Balance | |
| - | - | - | |
| - | - | - | |
| - | - | - | |
| - | - | - | |
| - | - | - | |
| Mechanical Properties | | | |
| Tensile Strength in Mpa | | | 500 min. |
| Yield Strength in Mpa | | | 270 min. |
| Elongation in % | | | 18 min. |
| Reduction of Area in % | | | 40 min. |
| Hardness in BHN | | | 143 max. |
| Impact in Joule | | | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| 1035 | SAE | USA | Steel and Tubing |
| 1035 | AISI | USA | Steel and Tubing |
| A 1040 1035 | ASTM | USA | Steel |
| A 108 Grade 1035 | ASTM | USA | Steel and Bar |
| A 29 1035 | ASTM | USA | Steel and Bar |
| A 311 1035 Class A | ASTM | USA | Steel and Bar |
| A 510 1035 | ASTM | USA | Wire Rod and Round Wire |

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