

## Material: SAE J403 | SAE J1397 UNS G10080 - Hot Rolled

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

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** SAE J403 | SAE J1397 UNS G10080 - 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 %  | 0.100 max.    | As Raw or Annealing or Normalizing or Hardening and Tempering |          |
| Manganese            | Mn % | 0.300 - 0.500 |                                                               |          |
| Phosphorus           | P %  | 0.030 max.    |                                                               |          |
| Sulphur              | S %  | 0.050 max.    |                                                               |          |
| Iron                 | Fe % | Balance       |                                                               |          |
| -                    | -    | -             |                                                               |          |
| -                    | -    | -             |                                                               |          |
| -                    | -    | -             | <b>Mechanical Properties</b>                                  |          |
| -                    | -    | -             |                                                               |          |
| -                    | -    | -             |                                                               |          |
| -                    | -    | -             |                                                               |          |
| -                    | -    | -             |                                                               |          |
| -                    | -    | -             |                                                               |          |
| -                    | -    | -             |                                                               |          |
| -                    | -    | -             | <b>Mechanical Properties</b>                                  |          |
| -                    | -    | -             | Tensile Strength in Mpa                                       | 303 min. |
| -                    | -    | -             | Yield Strength in Mpa                                         | 170 min. |
| -                    | -    | -             | Elongation in %                                               | 30 min.  |
| -                    | -    | -             | Reduction of Area in %                                        | 55 min.  |
| -                    | -    | -             | Hardness in HB                                                | 86 max.  |
| -                    | -    | -             | Impact in Joule                                               | -        |

| Cross Reference Table |          |         |                                                   |
|-----------------------|----------|---------|---------------------------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry                      |
| 1008                  | SAE      | USA     | Bars, Wire Rods, Plates, Strip, Sheets and Tubing |
| 1008                  | AISI     | USA     | Bars, Wire Rods, Plates, Strip, Sheets and Tubing |
| A 1040 1008           | ASTM     | USA     | Bars, Wire Rods, Plates, Strip, Sheets and Tubing |
| A 108 Grade 1008      | ASTM     | USA     | Bars, Wire Rods, Plates, Strip, Sheets and Tubing |
| A 29 1008             | ASTM     | USA     | Bars, Wire Rods, Plates, Strip, Sheets and Tubing |
| A 29 M1008            | ASTM     | USA     | Bars, Wire Rods, Plates, Strip, Sheets and Tubing |
| A 510 1008            | ASTM     | USA     | Bars, Wire Rods, Plates, Strip, Sheets and Tubing |

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