

## Material: SAE J403 | SAE J1397 UNS G11320 - 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 G11320 - 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 %  | 0.270 - 0.340 | As Raw or Annealing or Normalizing or Hardening and Tempering |          |
| Manganese            | Mn % | 1.350 - 1.650 |   |          |
| Phosphorus           | P %  | 0.030 max.    |   |          |
| Sulphur              | S %  | 0.080 - 0.130 |   |          |
| Iron                 | Fe % | Balance       |   |          |
| -                    | -    | -             |   |          |
| -                    | -    | -             |   |          |
| -                    | -    | -             |   |          |
| -                    | -    | -             |   |          |
| -                    | -    | -             |   |          |
|                      |      |               | Mechanical Properties   |          |
| -                    | -    | -             | Tensile Strength in Mpa                                       | 570 min. |
| -                    | -    | -             | Yield Strength in Mpa   | 310 min. |
| -                    | -    | -             | Elongation in %   | 16 min.  |
| -                    | -    | -             | Reduction of Area in %  | 40 min.  |
| -                    | -    | -             | Hardness in BHN   | 167 max. |
| -                    | -    | -             | Impact in Joule   | -        |

| Cross Reference Table |          |         |   |
|-----------------------|----------|---------|---|
| Material              | Standard | Country | Grade Belong to the Industry                      |
| 1132                  | SAE      | USA     | Bars, Wire Rods, Plates, Strip, Sheets and Tubing |
| 1132                  | AISI     | USA     | Steel and Bar                                     |
| A 1040 1132           | ASTM     | USA     | Steel   |
| A 29 1132             | ASTM     | USA     | Steel and Bar                                     |
| A 510 1132            | ASTM     | USA     | Wire Rod, Round Wire and Steel                    |
| A 519 1132            | ASTM     | USA     | Steel and Tubing                                  |
| A 576 11L32           | ASTM     | USA     | Steel and Bar                                     |

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