

# Material: ASTM A 29 1026

## Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel and Bar

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** ASTM A 29 1026 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel and Bar

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

**Grade Belongs to the Industry:** Steel and Bar

| Chemical Composition |      |                |
|----------------------|------|----------------|
| Carbon               | C %  | 0.220 - 0.280  |
| Manganese            | Mn % | 0.600 - 0.900  |
| Phosphorus           | P %  | 0.040 max.     |
| Sulphur              | S %  | 0.050 max.     |
| Boron                | B %  | 0.0005 - 0.003 |
| Copper               | Cu % | 0.200 min.     |
| Silicon              | Si % | 0.100 max.     |
| Aluminium            | Al % | 0.020 max.     |
| Niobium              | Nb % | 0.025 max.     |
| Vanadium             | V %  | 0.050 min.     |
| Iron                 | Fe % | Balance        |
| -                    | -    | -              |
| -                    | -    | -              |
| -                    | -    | -              |
| -                    | -    | -              |

| Heat Treatment  |  |
|---|--|
| As Raw or Annealing or Normalizing or Hardening and Tempering |  |

| Mechanical Properties   |           |
|-------------------------|-----------|
| Tensile Strength in Mpa | 415 min.  |
| Yield Strength in Mpa   | 240 min   |
| Elongation in %         | 5 min.    |
| Reduction of Area in %  | 40 - 49   |
| Hardness in HB          | 126 - 143 |
| Impact in Joule         | -         |

| Cross Reference Table |          |         |   |
|-----------------------|----------|---------|---|
| Material              | Standard | Country | Grade Belong to the Industry                      |
| G10260                | UNS      | USA     | Bars, Wire Rods, Plates, Strip, Sheets and Tubing |
| 1026                  | SAE      | USA     | Steel   |
| 1026                  | AISI     | USA     | Tubing  |
| A 1040 1026           | ASTM     | USA     | Steel   |
| A 510 1026            | ASTM     | USA     | Wire Rod and Round Wire                           |
| A 512 Grade 1026      | ASTM     | USA     | Tubing  |
| A 513 Grade 1026      | ASTM     | USA     | Tubing  |

**Disclaimer:** All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)



+91-99090 45075



[info@icastllp.com](mailto:info@icastllp.com)



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India