

Material: ASTM A 29 1080

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 1080 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 | | | Heat Treatment | |
|----------------------|------|----------------|---|------------|
| Carbon | C % | 0.750 - 0.880 | As Raw or Annealing or Normalizing or Hardening and Tempering | |
| Manganese | Mn % | 0.600 - 0.900 | | |
| Phosphorus | P % | 0.040 max. | | |
| Sulphur | S % | 0.050 max. | | |
| Boron | B % | 0.0005 - 0.003 | | |
| Silicon | Si % | 0.100 max. | | |
| Aluminium | Al % | 0.020 min. | | |
| Copper | Cu % | 0.200 min. | | |
| Niobium | Nb % | 0.015 min. | | |
| Vanadium | V % | 0.020 min. | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | 680 - 2310 |
| - | - | - | Yield Strength in Mpa | 420 min. |
| - | - | - | Elongation in % | 10 min. |
| - | - | - | Reduction of Area in % | 25 - 40 |
| - | - | - | Hardness in HB | 192 - 229 |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|---|
| Material | Standard | Country | Grade Belong to the Industry |
| G10800 | UNS | USA | Bars, Wire Rods, Plates, Strip, Sheets and Tubing |
| 1080 | SAE | USA | Steel |
| 1080 | AISI | USA | Steel and Bar |
| A 1040 1080 | ASTM | USA | Steel |
| A 510 1080 | ASTM | USA | Wire Rods, Round Wire and Steel |
| A 576 10L80 | ASTM | USA | Steel and Bar |
| A 682 G10800 | ASTM | USA | Steel and Strip |

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