

Material: ASTM A 29 1030

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 1030 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 % | 0.280 - 0.340 |
| Manganese | Mn % | 0.600 - 0.900 |
| Phosphorus | P % | 0.040 max. |
| Sulphur | S % | 0.050 max. |
| Silicon | Si % | 0.100 max. |
| Aluminium | Al % | 0.020 max. |
| Boron | B % | 0.0005 - 0.003 |
| Copper | Cu % | 0.200 max. |
| Niobium | Nb % | 0.015 max. |
| Vanadium | V % | 0.020 max. |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

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

| Mechanical Properties | |
|-------------------------|--------------------|
| Tensile Strength in Mpa | 415 - 896 |
| Yield Strength in Mpa | 260 min. |
| Elongation in % | 5 min. |
| Reduction of Area in % | 35 - 42 |
| Hardness in HB | 137 - 149 |
| Impact in Joule | 36.9 - 52.3 J @ RT |

| Cross Reference Table | | | |
|-----------------------|----------|---------|---|
| Material | Standard | Country | Grade Belong to the Industry |
| G10300 | UNS | USA | Bars, Wire Rods, Plates, Strip, Sheets and Tubing |
| 1030 | SAE | USA | Steel |
| 1030 | AISI | USA | Tubing |
| A 1040 1030 | ASTM | USA | Steel |
| A 108 Grade 1030 | ASTM | USA | Steel and Bar |
| A 510 1030 | ASTM | USA | Wire Rod and Round Wire |
| A 512 Grade 1030 | ASTM | USA | Tubing |

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