

Material: ASTM A 29 1140

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 1140 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 % | 0.370 - 0.440 | As Raw or Annealing or Normalizing or Hardening and Tempering |
| Manganese | Mn % | 0.700 - 1.000 | |
| Phosphorus | P % | 0.040 max. | |
| Sulphur | S % | 0.080 - 0.130 | |
| Silicon | Si % | 0.100 max. | |
| Aluminium | Al % | 0.020 max. | |
| Niobium | Nb % | 0.150 max. | |
| Vanadium | V % | 0.020 max. | |
| Iron | Fe % | Balance | |
| - | - | - | |
| - | - | - | |
| - | - | - | |
| - | - | - | |
| - | - | - | |
| - | - | - | |
| Mechanical Properties | | | |
| | | | Tensile Strength in Mpa |
| | | | 540 - 610 |
| | | | Yield Strength in Mpa |
| | | | 300 min. |
| | | | Elongation in % |
| | | | 12 min. |
| | | | Reduction of Area in % |
| | | | 35 - 40 |
| | | | Hardness in HB |
| | | | 156 - 170 |
| | | | Impact in Joule |
| | | | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|---|
| Material | Standard | Country | Grade Belong to the Industry |
| G11400 | UNS | USA | Bars, Wire Rods, Plates, Strip, Sheets and Tubing |
| 1140 | SAE | USA | Steel |
| 1140 | AISI | USA | Steel and Bar |
| A 1040 1140 | ASTM | USA | Steel |
| A 510 1140 | ASTM | USA | Wire Rod, Round Wire and Steel |
| A 576 11L40 | ASTM | USA | Steel and Bar |
| - | - | - | - |

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