

Material - AISI 1044

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 - AISI 1044 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 % | 0.430 - 0.500 | | |
| Manganese | Mn % | 0.300 - 0.600 | As Raw or Annealing or Normalizing or Hardening and Tempering | |
| Phosphorus | P % | 0.030 max. | | |
| Sulphur | S % | 0.035 max. | | |
| Boron | В% | 0.0005 - 0.003 | | |
| Chromium | Cr % | 0.150 max. | | |
| Copper | Cu % | 0.200 max. | | |
| Molybdenum | Mo % | 0.060 max. | | |
| Nickel | Ni % | 0.200 max. | Mechanical Properties | |
| Lead | Pb % | 0.150 - 0.350 | Tensile Strength in Mpa | 550 min. |
| Iron | Fe % | Balance | Yield Strength in Mpa | 300 min. |
| - | - | - | Elongation in % | 16 min. |
| - | - | - | Reduction of Area in % | 40 min. |
| - | - | - | Hardness in HB | 163 max. |
| - | - | - | Impac <mark>t in Joule</mark> | - |

| Cross Reference Table | | | | | |
|-----------------------|----------|---------|---|--|--|
| Material | Standard | Country | Grade Belong to the Industry | | |
| G10440 | SAE | USA | Bars, Wire Rods, Plates, Strip, Sheets and Tubing | | |
| 1044 | SAE | USA | Bars, Wire Rods, Plates, Strip, Sheets and Tubing | | |
| M1044 | SAE | USA | Steel | | |
| M1044 | AISI | USA | Steel | | |
| A 1040 1044 | ASTM | USA | Steel | | |
| A 29 1044 | ASTM | USA | Steel and Bar | | |
| A 575 M1044 | ASTM | USA | Steel and Bar | | |

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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