



Material - ASTM A 29 1023

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 1023 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 % | 0.200 - 0.250 | As Raw or Annealing or Normalizing or Hardening and Tempering | |
| Manganese | Mn % | 0.300 - 0.600 | | |
| Phosphorus | P % | 0.040 max. | | |
| Sulphur | S % | 0.050 max. | | |
| Aluminium | Al % | 0.020 max. | | |
| Copper | Cu % | 0.200 max. | | |
| Silicon | Si % | 0.100 max. | | |
| Boron | B % | 0.0005 - 0.003 | | |
| Niobium | Nb % | 0.025 max. | | |
| Vanadium | V % | 0.050 max. | | |
| Iron | Fe % | Balance | Mechanical Properties Tensile Strength in Mpa 370 - 430 Yield Strength in Mpa 210 min Elongation in % 15 min. Reduction of Area in % 40 - 50 Hardness in HB 111 - 121 Impact in Joule - | |
| - | - | - | | |
| - | - | - | | |
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| Cross Reference Table | | | |
|-----------------------|----------|---------|---|
| Material | Standard | Country | Grade Belong to the Industry |
| G10230 | UNS | USA | Bars, Wire Rods, Plates, Strip, Sheets and Tubing |
| 1023 | SAE | USA | Steel |
| 1023 | AISI | USA | Steel and Bar |
| A 1040 1023 | ASTM | USA | Steel |
| A 29 M1023 | ASTM | USA | Steel and Bar |
| A 510 1023 | ASTM | USA | Wire Rod and Round Wire |
| A 513 Grade 1023 | ASTM | USA | Tubing |

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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