

Material: ASTM A 513 Grade 1023

Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Tubing

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A 513 Grade 1023 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Tubing

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry: *Tubing*

| 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 % | 0.035 max. | |
| Sulphur | S % | 0.035 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 | | | - |

| 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 1023 | ASTM | USA | Steel and Bar |
| A 29 M1023 | ASTM | USA | Steel and Bar |
| A 510 1023 | ASTM | USA | Wire Rod and Round Wire |

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