



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-29 Grade 1023

Standard Specification for Steel Bars, Carbon and Alloy, Hot-Wrought and Cold-Finished,
General Requirements For

Group - Ferrous Mild Steel Alloys

Sub Group - ASME SA-29 Grade 1023 Steel Bars, Carbon and Alloy, Hot-Wrought and Cold-Finished, General
Requirements For

Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries

Grade Belongs to the Industry - Steel and Bars

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|---------------|---|---|
| Carbon | C % | 0.200 - 0.250 | As-Raw or Annealing or Normalizing or Hardening + Tempering | |
| Manganese | Mn % | 0.300 - 0.600 | | |
| Phosphorus | P % | 0.040 max. | | |
| Sulphur | S % | 0.050 max. | | |
| Iron | Fe % | Balance | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| | | | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | - |
| - | - | - | Yield Strength in Mpa | - |
| - | - | - | Elongation in % | - |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in HB | - |
| - | - | - | Impact in Joule | - |

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| Cross Reference Table | | | |
|-----------------------|----------|---------|--|
| Material | Standard | Country | Grade Belong to the Industry |
| G10230 | UNS | USA | Forging, Bars, Wire Rods |
| J 467 M1023 | SAE | USA | Steel |
| SAE J 403 1023 | AISI | USA | Shapes, Plates, Strip, Sheets and Tubing |
| A 510 1023 | ASTM | USA | Steel and Wire Rods |
| A 513 1023 | ASTM | USA | Steel and Tubing |
| A 576 1023 | ASTM | USA | Steel and Bars |
| A 575 M1023 | ASTM | USA | Steel and Bars |

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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

ONE STOP SOLUTION FOR METAL PARTS