GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - ASME SA-29 Grade 5140

## 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 5140 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 | | |
|---|---|---|
| Carbon | C % | 0.380 - 0.430 |
| Manganese | Mn % | 0.700 - 0.900 |
| Phosphorus | P % | 0.035 max. |
| Sulphur | S % | 0.040 max. |
| Silicon | Si % | 0.150 - 0.350 |
| Chromium | Cr % | 0.700 - 0.900 |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|---|
| As-Raw or Annealing or Normalizing or Hardening + Tempering |

| 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** |
| G51400 | UNS | USA | Steel |
| SAE J 404 5140 | AISI | USA | Bars, Wire Rods, Shapes, Sheet, Strip and Tubing |
| J 1397 5140 | SAE | USA | Steel and Bars |
| A 29 5140 | ASTM | USA | Steel and Bars |
| A 752 Grade 5140 | ASTM | USA | Steel and Wire Rods |
| A 914 Frade 5140RH | ASTM | USA | Steel and Bars |
| A 322 5140 | 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.