GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - ASME SA-29 Grade 4320

## 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 4320 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 % | 0.170 - 0.220 |
| Manganese | Mn % | 0.450 - 0.650 |
| Phosphorus | P % | 0.035 max. |
| Sulphur | S % | 0.040 max. |
| Silicon | Si % | 0.150 - 0.350 |
| Nickel | Ni % | 1.650 - 2.000 |
| Chromium | Cr % | 0.400 - 0.600 |
| Molybdenum | Mo % | 0.200 - 0.300 |
| 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** |
| G43200 | UNS | USA | Steel |
| SAE J 404 4320 | AISI | USA | Steel and Bars |
| J 404 4320 | SAE | USA | Steel |
| A 29 4320 | ASTM | USA | Steel and Bars |
| A 505 4320 | ASTM | USA | Steel, Sheet, and Strip |
| A 519 4320 | ASTM | USA | Steel and Tubing |
| A 752 Grade 4320 | ASTM | USA | Steel and Wire Rods |

**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.