GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - ASME SA-739 Grade B 11

## Standard Specification for Steel Bars, Alloy, Hot-Wrought, for Elevated Temperature or Pressure-Containing Parts, or Both

**Group - Ferrous Mild Steel Alloys**

**Sub Group - ASME SA-739 Grade B 11 Steel Bars, Alloy, Hot-Wrought, for Elevated Temperature or Pressure-Containing Parts, or Both**

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

**Grade Belongs to the Industry - Steel and Bars**

| Chemical Composition | | |
|---|---|---|
| Carbon | C % | 0.050 - 0.200 |
| Manganese | Mn % | 0.400 - 0.650 |
| Phosphorus | P % | 0.035 max. |
| Sulphur | S % | 0.040 max. |
| Silicon | Si % | 0.500 - 0.800 |
| Chromium | Cr % | 1.000 - 1.500 |
| Molybdenum | Mo % | 0.450 - 0.650 |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|---|
| Normalizing & Tempering |

| Mechanical Properties | |
|---|---|
| Tensile Strength in Mpa | 483 - 655 |
| Yield Strength in Mpa | 310 min. |
| Elongation in % | 18 min. |
| Reduction of Area in % | 45 min. |
| Hardness in BHN | - |
| Impact in Joule | - |

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| Cross Reference Table | | | |
|---|---|---|---|
| **Material** | **Standard** | **Country** | **Grade Belong to the Industry** |
| K11797 | UNS | USA | Steel |
| SA-387 Grade 11 | ASME | USA | Steel and Plate |
| SA-691 1 1/4CR | ASME | USA | Steel and Pipe |
| G 4109 SCMV 3 | JIS | Japan | Steel and Plate |
| 1501-2 621 | B.S. | United Kingdom | Steel and Plate |
| A 387 Grade 11 | ASTM | USA | Steel and Plate |
| A 739 Grade B 11 | 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.