



**GRAVITY CAST PVT. LTD.**  
GRAVITY GROUP OF COMPANIES

## Material - ASME SA-29 Grade 12L15

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 12L15 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 %  | 0.090 max.    | As-Raw or Annealing or Normalizing or Hardening + Tempering |   |
| Manganese            | Mn % | 0.750 - 1.050 |                                                             |   |
| Phosphorus           | P %  | 0.040 - 0.090 |                                                             |   |
| Sulphur              | S %  | 0.260 - 0.350 |                                                             |   |
| Lead                 | Pb % | 0.150 - 0.350 |                                                             |   |
| 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                                             | - |

[www.gravitycastindia.com](http://www.gravitycastindia.com)

| Cross Reference Table |          |         |                                     |
|-----------------------|----------|---------|-------------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry        |
| G12150                | UNS      | USA     | Steel                               |
| J 403 12L15           | SAE      | USA     | Steel                               |
| SAE J 403 12L15       | AISI     | USA     | Forging, Bars, Wire Rods and Tubing |
| A 29 12L15            | ASTM     | USA     | Steel and Bars                      |
| A 510 12L15           | ASTM     | USA     | Steel and Wire Rods                 |
| A 108 1215            | ASTM     | USA     | Steel and Bars                      |
| A 576 1215            | 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](mailto: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**