

## Material - ASTM A1001 Grade 6 Class A

### Standard Specification for High Strength Steel Castings in Heavy Sections

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A1001 High Strength Steel Castings in Heavy Sections

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

Grade Belongs to the Industry - Casting

| Chemical Composition |   |   | Heat Treatment                     |              |
|----------------------|---|---|------------------------------------|--------------|
| -                    | - | - | Annealing or Hardening + Tempering |              |
| -                    | - | - |                                    |              |
| -                    | - | - |                                    |              |
| -                    | - | - |                                    |              |
| -                    | - | - |                                    |              |
| -                    | - | - |                                    |              |
| -                    | - | - |                                    |              |
| -                    | - | - |                                    |              |
| -                    | - | - |                                    |              |
|                      |   |   | Mechanical Properties              |              |
| -                    | - | - | Tensile Strength in Mpa            | 760 min.     |
| -                    | - | - | Yield Strength in Mpa              | 620 min.     |
| -                    | - | - | Elongation in %                    | 18 min.      |
| -                    | - | - | Reduction of Area in %             | 36 min.      |
| -                    | - | - | Hardness in BHN                    | -            |
| -                    | - | - | Impact in Joule                    | 34 min. @ RT |

| Cross Reference Table |          |                |                                     |
|-----------------------|----------|----------------|-------------------------------------|
| Material              | Standard | Country        | Grade Belong to the Industry        |
| SA 216 WCB            | ASME     | USA            | Casting                             |
| A757 A1Q              | ASTM     | USA            | Casting                             |
| J03002                | UNS      | USA            | Casting                             |
| 1.0619                | DIN      | Germany        | Casting                             |
| 1.0619                | EN       | European Union | Casting                             |
| A660 WCB              | ASTM     | USA            | Fusion Welding, Bending and Forming |
| SA 660 WCB            | ASME     | USA            | Centrifugal Casting                 |

**For any further inquiries, please do not hesitate to contact us. You may visit our website at [AMTECH TECHNOCAST PVT. LTD.](http://AMTECH TECHNOCAST PVT. LTD.), call us at [+91 9879817994](tel:+919879817994), or email us at [manish@amtechtechnocast.com](mailto:manish@amtechtechnocast.com)**

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