

## Material - ASTM A 505 8625

### Standard Specification for Hot - Cold Finished Carbon and Alloy Steel Bars

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A 505 8625 Hot - Cold Finished Carbon and Alloy Steel Bars

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

Grade Belongs to the Industry - Bar, Wire, Tube and Forging

| Chemical Composition |      |               | Heat Treatment                                                |   |
|----------------------|------|---------------|---------------------------------------------------------------|---|
| Carbon               | C %  | 0.280 - 0.330 | As- Cast or Normalising or Annealing or Hardening + Tempering |   |
| Silicon              | Si % | 0.150 - 0.300 |                                                               |   |
| Manganese            | Mn % | 0.700 - 0.900 |                                                               |   |
| Phosphorus           | P %  | 0.040 max.    |                                                               |   |
| Sulphur              | S %  | 0.040 max.    |                                                               |   |
| Chromium             | Cr % | 0.400 - 0.600 |                                                               |   |
| Molybdenum           | Mo % | 0.150 - 0.250 |                                                               |   |
| Nickel               | Ni % | 0.400 - 0.700 |                                                               |   |
| Iron                 | Fe % | Balance       |                                                               |   |
| -                    | -    | -             | Mechanical Properties                                         |   |
| -                    | -    | -             | Tensile Strength in Mpa                                       | - |
| -                    | -    | -             | Yield Strength in Mpa                                         | - |
| -                    | -    | -             | Elongation in %                                               | - |
| -                    | -    | -             | Reduction of Area in %                                        | - |
| -                    | -    | -             | Hardness in BHN                                               | 0 |
| -                    | -    | -             | Impact in Joule                                               | 0 |

| Cross Reference Table |          |           |                              |
|-----------------------|----------|-----------|------------------------------|
| Material              | Standard | Country   | Grade Belong to the Industry |
| A915 Grade SC 8625    | UNS      | USA       | Casting                      |
| J12595                | UNS      | USA       | Bar, Wire, Tube and Forging  |
| A 29 8625             | ASTM     | USA       | Bar, Wire, Tube and Forging  |
| 8625                  | AISI     | USA       | Bar, Wire, Tube and Forging  |
| 8625                  | SAE      | USA       | Bar, Wire, Tube and Forging  |
| 8625                  | AMS      | USA       | Bar, Wire, Tube and Forging  |
| 8625                  | AS       | Australia | Bar, Wire, Tube and Forging  |

**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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