

# Material: UNS J12595

## Standard Specification for Alloy Steel Casting

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** UNS J12595 Alloy Steel Casting

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

**Grade Belongs to the Industry:** Casting

| Chemical Composition |      |               |
|----------------------|------|---------------|
| Carbon               | C %  | 0.230 - 0.280 |
| Silicon              | Si % | 0.300 - 0.600 |
| Manganese            | Mn % | 0.600 - 1.000 |
| Phosphorus           | P %  | 0.035 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       |
| -                    | -    | -             |
| -                    | -    | -             |
| -                    | -    | -             |
| -                    | -    | -             |
| -                    | -    | -             |
| -                    | -    | -             |

| Heat Treatment  |
|---|
| As- Cast or Normalizing or Annealing or Hardening + Tempering |

| Mechanical Properties   |   |
|-------------------------|---|
| Tensile Strength in Mpa | - |
| Yield Strength in Mpa   | - |
| Elongation in %         | - |
| Reduction of Area in %  | - |
| Hardness in BHN         | - |
| Impact in Joule         | - |

| Cross Reference Table |          |           |                              |
|-----------------------|----------|-----------|------------------------------|
| Material              | Standard | Country   | Grade Belong to the Industry |
| A915 Grade SC 8625    | UNS      | USA       | Casting                      |
| A 29 8625             | ASTM     | USA       | Bar, Wire, Tube and Forging  |
| A 505 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  |

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