

## Material: ASTM A 505 8630

### Standard Specification for Alloy Steel, Sheet, Strip, Hot-Rolled and Cold-Rolled

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** ASTM A 505 8630 Alloy Steel, Sheet, Strip, Hot-Rolled and Cold-Rolled

**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 Normalizing 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   | - |
| -                    | -    | -             | Impact in Joule   | - |

| Cross Reference Table |          |           |                              |
|-----------------------|----------|-----------|------------------------------|
| Material              | Standard | Country   | Grade Belong to the Industry |
| A915 Grade SC 8630    | UNS      | USA       | Casting                      |
| J13095                | UNS      | USA       | Bar, Wire, Tube and Forging  |
| A 29 8630             | ASTM     | USA       | Bar, Wire, Tube and Forging  |
| 8630                  | AISI     | USA       | Bar, Wire, Tube and Forging  |
| 8630                  | SAE      | USA       | Bar, Wire, Tube and Forging  |
| 8630                  | AMS      | USA       | Bar, Wire, Tube and Forging  |
| 8630                  | AS       | Australia | Bar, Wire, Tube and Forging  |

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