

Material: ASTM A 915 Grade SC 8630

Standard Specification for Steel Castings, Carbon and Alloy, Chemical Requirements Similar to Standard

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A 915 Grade SC 8630 Steel Castings, Carbon and Alloy, Chemical Requirements Similar to

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

Grade Belongs to the Industry: Casting

| Chemical Composition | | |
|----------------------|------|---------------|
| Carbon | C % | 0.280 - 0.330 |
| 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 | 610 min. |
| 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 |
| J13095 | UNS | USA | Casting |
| 8630 | AISI | USA | Bar, Wire, Tube and Forging |
| 8630 | SAE | USA | Bar, Wire, Tube and Forging |
| 8630 | AS | Australia | Bar, Wire, Tube and Forging |
| 8630 | AMS | USA | Bar, Wire, Tube and Forging |
| A 29 8630 | ASTM | USA | Bar, Wire, Tube and Forging |
| A 505 8630 | ASTM | USA | Bar, Wire, Tube and Forging |

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