

Material - SAE 8630

Standard Specification for General Characteristics and Heat Treatments of Steels

Group - Ferrous Mild Steel Alloys

Sub Group - SAE 8630 General Characteristics and Heat Treatments of Steels

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade Belongs to the Industry - Bar, Tube, Sheet, Strip and Forging

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|---------------|---|--------------------|
| Carbon | C % | 0.280 - 0.330 | | |
| Silicon | Si % | 0.150 -0.350 | Annealing or Normalising or Hardening + Tempering | |
| Manganese | Mn % | 0.700 - 0.900 | | |
| Phosphorus | Р% | 0.025 max. | | |
| Sulphur | S % | 0.025 max. | | |
| Chromium | Cr % | 0.400 - 0.600 | | |
| Nickel | Ni % | 0.400 - 0.700 | | |
| Molybdenum | Mo % | 0.150 - 0.250 | | |
| Copper | Cu % | 0.350 max. | Mechanical Properties | |
| Iron | Fe % | Balance | Tensile Strength in Mpa | 586 - 1379 |
| - | - | - | Yield Strength in Mpa | 482 min. |
| - | - | - | Elongation in % | 8 min. |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in BHN | 179 - 248 |
| - | - | - | Impac <mark>t in Joule</mark> | 25.7 - 53.2 J @ RT |

| Cross Reference Table | | | | |
|-----------------------|----------|---------|-------------------------------|--|
| Material | Standard | Country | Grade Belong to the Industry | |
| J13051 | UNS | USA | Casting | |
| 8630 | UNS | USA | Forging, Bar, Wire, and Shape | |
| 8630 | AMS | USA | Bar and Forging | |
| A732 14Q | AISI | USA | Casting | |
| - | - | - | - | |
| - | - | - | - | |
| - | - | - | - | |

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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