



Material - ISO 3522 Al Si10Mg

Standard Specification for Aluminium and Aluminium Alloys

Group - Non-Ferrous Aluminium Alloy

Sub Group - ISO 3522 for Aluminium and Aluminium Alloys

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

Grade Belongs to the Industry - Casting

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|----------------|-------------------------|----------|
| Silicon | Si % | 9.000 - 11.000 | As-Cast | |
| Iron | Fe % | 0.550 max. | | |
| Copper | Cu % | 0.100 max. | | |
| Manganese | Mn % | 0.450 max. | | |
| Magnesium | Mg % | 0.200 - 0.450 | | |
| Nickel | Ni % | 0.050 max. | | |
| Zinc | Zn % | 0.100 max. | | |
| Lead | Pb % | 0.050 max. | | |
| Tin | Sn % | 0.050 max. | | |
| Titanium | Ti % | 0.150 max. | | |
| Other | Ot% | 0.150 max. | | |
| Aluminium | Al % | Balance | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| | | | Mechanical Properties | |
| | | | Tensile Strength in Mpa | 150 min. |
| | | | Yield Strength in Mpa | 80 min. |
| | | | Elongation in % | 2 min. |
| | | | Reduction of Area in % | - |
| | | | Hardness in HBW | 50 min. |
| | | | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|----------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| AlSi10Mg | DIN | Germany | Casting |
| AlSi10Mg | BS | British | Wire and Rod |
| AlSi10Mg | UNI | Italy | Wire and Rod |
| AlSi10Mg | UNE | Spain | Wire and Rod |
| AlSi10Mg | MSZ | Hungary | Wire and Rod |
| AlSi10Mg | CSN | Czech Republic | Wire and Rod |
| AlSi10Mg | BDS | Bulgaria | Wire and Rod |

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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