

Aluminium - 6082 T6

Rectangular Tube

Properties

| Stock | | | Chemical Properties | |
|-----------|-----------|---------------|---------------------|------------------------|
| Size (in) | Thickness | Weight/m (Kg) | Element | Chemical composition % |
| 2 x 1 | 10G | 1.20 | Manganese (Mn) | 0.40 - 1.00 |
| 3 x 1 | 10G | 1.90 | Iron (Fe) | 0.0 - 0.50 |
| 3 x 2 1/2 | 10G | 2.04 | Magnesium (Mg) | 0.60 - 1.20 |
| 4 x 1 | 10G | 2.10 | Silicon (Si) | 0.70 - 1.30 |
| 4 x 1 3/4 | 10G | 2.50 | Copper (Cu) | 0.0 - 0.10 |
| 4 x 2 | 1/8 | 2.50 | Zinc (Zn) | 0.0 - 0.20 |
| 4 x 2 | 10G | 2.60 | Titanium (Ti) | 0.0 - 0.10 |
| | | | Chromium (Cr) | 0.0 - 0.25 |
| | | | Aluminium (Al) | Balance |

| Mechanical Properties | |
|-----------------------|---------|
| Property | Value |
| Proof Stress | 170 MPa |
| Tensile Strength | 260 MPa |
| Elongation | 19% |
| Shear Strength | 170 MPa |
| Hardness Vickers | 75 HV |

| Physical Properties | |
|------------------------|------------------------------|
| Property | Value |
| Density | 2.70 g/cm ³ |
| Melting Point | 555°C |
| Thermal Expansion | 24 x 10 ⁻⁶ /K |
| Modulus of Elasticity | 70 GPa |
| Thermal Conductivity | 180 W/m.K |
| Electrical Resistivity | 0.038 x 10 ⁻⁶ Ω.m |

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