

Aluminium - 5083 H321

Large Plates

Properties

| Stock | | Chemical Properties | |
|--------------------|-------------------|------------------------|------------------------------|
| Size (mm) | Weight/Sheet (Kg) | Element | Chemical Composition % |
| 6000 x 2000 x 3.0 | 97.56 | Manganese (Mn) | 0.40 - 1.00 |
| 6000 x 2000 x 4.0 | 130.08 | Iron (Fe) | 0.40 typical |
| 8000 x 2500 x 4.0 | 216.80 | Copper (Cu) | 0.10 typical |
| 6000 x 2000 x 5.0 | 162.60 | Magnesium (Mg) | 4.0 - 4.90 |
| 6000 x 2000 x 6.0 | 195.12 | Silicon (Si) | 0.40 typical |
| 4000 x 2000 x 7.0 | 151.76 | Zinc (Zn) | 0.25 typical |
| 6000 x 2000 x 7.0 | 227.64 | Chromium (Cr) | 0.05 - 0.25 |
| 6000 x 2000 x 8.0 | 260.16 | Titanium (Ti) | 0.15 typical |
| 4000 x 2000 x 10.0 | 216.80 | Aluminium (Al) | Balance |
| 6000 x 2000 x 10.0 | 325.20 | | |
| 4000 x 2000 x 12.0 | 260.16 | | |
| 6000 x 2000 x 12.0 | 390.24 | | |
| 6000 x 2000 x 15.0 | 487.80 | | |
| 6000 x 2000 x 16.0 | 520.32 | | |
| 4000 x 2000 x 20.0 | 433.60 | | |
| 6000 x 2000 x 20.0 | 650.40 | | |
| 4000 x 2000 x 25.0 | 542.00 | | |
| 6000 x 2000 x 25.0 | 813.00 | | |
| 6000 x 2000 x 30.0 | 975.60 | | |
| 4000 x 2000 x 40.0 | 867.20 | | |
| 6000 x 2000 x 40.0 | 1300.80 | | |
| | | Mechanical Properties | |
| | | Property | Value |
| | | Proof stress | 240 MPa |
| | | Tensile strength | 330 MPa |
| | | Elongation | 17% |
| | | Shear strength | 185 MPa |
| | | Hardness Vickers | 95 HV |
| | | Physical Properties | |
| | | Property | Value |
| | | Density | 2.65 g/cm ³ |
| | | Melting point | 570°C |
| | | Thermal expansion | 25 x 10 ⁻⁶ /K |
| | | Modulus of elasticity | 72 GPa |
| | | Thermal conductivity | 121 W/m.k |
| | | Electrical resistivity | 0.058 x 10 ⁻⁶ Ω.m |

Disclaimer

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