

Kormax 6082 Aluminium

Material Data Sheet

6082 aluminium is an alloy in the wrought aluminium-magnesium-silicon. It is one of the more popular alloys in its series, although it is not strongly featured in ASTM standards. It is typically formed by extrusion and rolling, but as a wrought alloy it is not used in casting. It can also be forged and clad, but that is not common practice with this alloy. It cannot be work hardened but is commonly heat treated to produce tempers with a higher strength but lower ductility.

Chemical Composition (%)

| Element | | |
|-----------|----|-----------|
| Aluminium | Al | Balance |
| Magnesium | Mg | 0.6-1.2 |
| Silicon | Si | 0.7-1.3 |
| Manganese | Mn | 0.4-1 |
| Iron | Fe | 0.5 (max) |
| Copper | Cu | 0.1 max |
| Zinc | Zn | 0.2 max |
| Chromium | Cr | 0.25 max |
| Titanium | Ti | 0.1 max |

Mechanical Properties

| | Metric Values |
|----------------------------|---------------|
| Tensile Strength Min | 310 MPa |
| 0.2% Proof Stress Min | 260 MPa |
| Elongation percent on 50mm | 14% |

The technical data given in this sheet corresponds to our current state of knowledge and should not be construed as an agreement or guarantee regarding certain properties of our products. The decision on the suitability of a particular material for a specific application is up to the user. We reserve the right to modify the given data. Errors of the given data are reserved. The document was produced by machine and is valid without signature.