

# Alloy 7075

7000 series | Reference sheet | Data checked 14 October 2026

A high-strength aluminium alloy with separate T6 and T73 family reference conditions. Rod and bar values must retain their form and test basis.

Scope: Selected reference facts; incomplete alloy coverage

This reference sheet is not a material certificate, procurement specification or source of design allowables. Values apply only to their listed form, temper and condition. Confirm current requirements with the supplier and governing standard.

## Forms and tempers

Forms: Rod and bar

Tempers in record: O, T6, T651, T73, T7351

## Selected physical properties

Density: 2800 kg/m³

Temper: Not specified | Form: Rod and bar | Condition: 20 °C

Basis: typical | Verification: single-source | Source: kaiser7075 | Checked: 2026-10-14

## Selected mechanical properties

T6 / T651 | Rod and bar

| Tensile strength | Yield / proof strength | Thickness / specimen scope                                           |
|------------------|------------------------|----------------------------------------------------------------------|
| 572 MPa          | 503 MPa                | 0.500 inch diameter tensile specimen; material thickness unspecified |

Condition: Supplier reference; not a design allowable or certificate.

Basis: typical | Verification: single-source | Source: kaiser7075 | Checked: 2026-10-14

T73 / T7351 | Rod and bar

| Tensile strength | Yield / proof strength | Thickness / specimen scope                                           |
|------------------|------------------------|----------------------------------------------------------------------|
| 503 MPa          | 434 MPa                | 0.500 inch diameter tensile specimen; material thickness unspecified |

Condition: Supplier reference; not a design allowable or certificate.

Basis: typical | Verification: single-source | Source: kaiser7075 | Checked: 2026-10-14

## Alloy 7075 / Composition and sources

### Selected chemistry

| Element     | Published limit / value | Provenance                                                                                        |
|-------------|-------------------------|---------------------------------------------------------------------------------------------------|
| Si          | Maximum 0.4 wt %        | Basis: composition-limit   Verification: single-source   Source: kaiser7075   Checked: 2026-10-14 |
| Fe          | Maximum 0.5 wt %        | Basis: composition-limit   Verification: single-source   Source: kaiser7075   Checked: 2026-10-14 |
| Cu          | 1.2-2 wt %              | Basis: composition-limit   Verification: single-source   Source: kaiser7075   Checked: 2026-10-14 |
| Mn          | Maximum 0.3 wt %        | Basis: composition-limit   Verification: single-source   Source: kaiser7075   Checked: 2026-10-14 |
| Mg          | 2.1-2.9 wt %            | Basis: composition-limit   Verification: single-source   Source: kaiser7075   Checked: 2026-10-14 |
| Cr          | 0.18-0.28 wt %          | Basis: composition-limit   Verification: single-source   Source: kaiser7075   Checked: 2026-10-14 |
| Zn          | 5.1-6.1 wt %            | Basis: composition-limit   Verification: single-source   Source: kaiser7075   Checked: 2026-10-14 |
| Ti          | Maximum 0.2 wt %        | Basis: composition-limit   Verification: single-source   Source: kaiser7075   Checked: 2026-10-14 |
| Other each  | Maximum 0.05 wt %       | Basis: composition-limit   Verification: single-source   Source: kaiser7075   Checked: 2026-10-14 |
| Other total | Maximum 0.15 wt %       | Basis: composition-limit   Verification: single-source   Source: kaiser7075   Checked: 2026-10-14 |
| Al          | Remainder               | Basis: remainder   Verification: single-source   Source: kaiser7075   Checked: 2026-10-14         |

This is selected chemistry, not a complete composition specification. Unlisted elements must not be assumed to be zero.

### Applications and selection guidance

Applications:

The source distinguishes the corrosion response of T6 and T73 family tempers. A substitution needs assessment of strength, environment and fabrication. No exact equivalence to 2024 or other aerospace grades is asserted.

### Source register

kaiser7075 | Kaiser 7075 rod and bar

Revision / access scope: KA-RBH-7075-8.10 | Checked: 2026-10-14

[https://online.kaiseraluminum.com/depot/PublicProductInformation/Document/1028/Kaiser\\_Aluminum\\_7075\\_Rod\\_and\\_Bar.pdf](https://online.kaiseraluminum.com/depot/PublicProductInformation/Document/1028/Kaiser_Aluminum_7075_Rod_and_Bar.pdf)

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