

Alloy 2024

2000 series | Reference sheet | Data checked 14 October 2026

A copper-containing aluminium alloy with published sheet, coil and plate reference data. Select a complete alloy, temper and product specification before comparing strength.

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: Sheet, coil and plate

Tempers in record: O, T4, T351

Selected physical properties

Density: 2770 kg/m³

Temper: Not specified | Form: Sheet, coil, plate | Condition: 20 °C

Basis: typical | Verification: single-source | Source: kaiser2024 | Checked: 2026-10-14

Selected mechanical properties

T4 / T351 | Sheet, coil, plate

Tensile strength	Yield / proof strength	Thickness / specimen scope
469 MPa	324 MPa	0.500 inch diameter tensile specimen; thickness unspecified

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

Basis: typical | Verification: single-source | Source: kaiser2024 | Checked: 2026-10-14

Alloy 2024 / Composition and sources

Selected chemistry

Element	Published limit / value	Provenance
Si	Maximum 0.5 wt %	Basis: composition-limit Verification: single-source Source: kaiser2024 Checked: 2026-10-14
Fe	Maximum 0.5 wt %	Basis: composition-limit Verification: single-source Source: kaiser2024 Checked: 2026-10-14
Cu	3.8-4.9 wt %	Basis: composition-limit Verification: single-source Source: kaiser2024 Checked: 2026-10-14
Mn	0.3-0.9 wt %	Basis: composition-limit Verification: single-source Source: kaiser2024 Checked: 2026-10-14
Mg	1.2-1.8 wt %	Basis: composition-limit Verification: single-source Source: kaiser2024 Checked: 2026-10-14
Cr	Maximum 0.1 wt %	Basis: composition-limit Verification: single-source Source: kaiser2024 Checked: 2026-10-14
Zn	Maximum 0.25 wt %	Basis: composition-limit Verification: single-source Source: kaiser2024 Checked: 2026-10-14
Ti	Maximum 0.15 wt %	Basis: composition-limit Verification: single-source Source: kaiser2024 Checked: 2026-10-14
Other each	Maximum 0.05 wt %	Basis: composition-limit Verification: single-source Source: kaiser2024 Checked: 2026-10-14
Other total	Maximum 0.15 wt %	Basis: composition-limit Verification: single-source Source: kaiser2024 Checked: 2026-10-14
Al	Remainder	Basis: remainder Verification: single-source Source: kaiser2024 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:

Compare exact material conditions. The typical T4/T351 value is not a guaranteed specification minimum. Evaluate corrosion protection and fabrication for the actual assembly; aerospace qualification requires approved material documentation.

Source register

kaiser2024 | Kaiser • 2024 sheet, coil and plate

Revision / access scope: 05/06 | Checked: 2026-10-14

https://online.kaiseraluminum.com/depot/PublicProductInformation/Document/1012/Kaiser_Aluminum_2024_Sheet_Coil_and_Plate.pdf

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