

Alloy 3004

3000 series | Reference sheet | Data checked 14 October 2026

A moderate-strength rolled alloy documented by Hualamin for roofing, cladding and signage, with mill, painted and embossed finishes.

Scope: Selected rolled-product facts; single manufacturer source; thickness scope of mechanical table not stated.

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: Rolled products

Tempers in record: H14, H32, H34, H42, H44, H46

Selected physical properties

Density: 2.72 g/cm³

Temper: Not specified | Form: Rolled products | Condition: 20 °C

Basis: source-reference | Verification: single-source | Source: hualamin3004 | Checked: 2026-10-14

Selected mechanical properties

H14 | Rolled products

Tensile strength	Yield / proof strength	Thickness / specimen scope
220-265 MPa	180 MPa	Not stated in source mechanical table

Condition: Supplier reference: proof stress minimum and tensile range; no thickness or test-direction detail supplied

Basis: source-minimum-and-range | Verification: single-source | Source: hualamin3004 | Checked: 2026-10-14

Alloy 3004 / Composition and sources

Selected chemistry

Element	Published limit / value	Provenance
Mn	1-1.5 wt %	Basis: composition-limit Verification: single-source Source: hualamin3004 Checked: 2026-10-14
Mg	0.8-1.3 wt %	Basis: composition-limit Verification: single-source Source: hualamin3004 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: Roofing and cladding; Signage; General engineering

Select the finish and temper for the fabrication route. Hualamin identifies suitability for roll forming and coating; its strength table does not state a thickness band, so confirm the ordered gauge and certificate.

Source register

hualamin3004 | Hualamin • 3004 rolled products

Revision / access scope: Undated public datasheet | Checked: 2026-10-14

<https://www.hualamin.com/sites/default/files/downloads/3004%20Datasheet.pdf>

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