

Alloy 5052

5000 series | Reference sheet | Data checked 14 October 2026

A magnesium-containing aluminium alloy referenced for hydraulic tube applications. Product form and cold-work condition must accompany any strength comparison.

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: Tube and pipe

Tempers in record: O, H32, H34

Selected physical properties

No physical property values published in this partial record.

Selected mechanical properties

O | Tube and pipe

Tensile strength	Yield / proof strength	Thickness / specimen scope
195 MPa	90 MPa	Tensile specimen elongation basis 4D; material thickness unspecified

Condition: Supplier reference; thickness of tensile specimen section; not a certificate or design allowable

Basis: typical | Verification: single-source | Source: kaiser5052 | Checked: 2026-10-14

H32 | Tube and pipe

Tensile strength	Yield / proof strength	Thickness / specimen scope
230 MPa	195 MPa	Tensile specimen elongation basis 4D; material thickness unspecified

Condition: Supplier reference; thickness of tensile specimen section; not a certificate or design allowable

Basis: typical | Verification: single-source | Source: kaiser5052 | Checked: 2026-10-14

Alloy 5052 / Composition and sources

Selected chemistry

No chemistry values published in this partial record.

Applications and selection guidance

Applications: Hydraulic tubing

The referenced document reports typical tube properties. These are not sheet specification limits. Density is withheld because the source labels its unit inconsistently.

Source register

kaiser5052 | Kaiser • 5052 tube and pipe

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

https://online.kaiseraluminum.com/depot/PublicProductInformation/Document/1040/Kaiser_Aluminum_5052_Tube_and_Pipe.pdf

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