

Alloy 5251

5000 series | Reference sheet | Data checked 14 October 2026

A formable aluminium sheet and plate alloy referenced in the annealed condition. Cold-work conditions require their own property data.

Scope: Selected indicative supplier facts; critical specification values require independent confirmation

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 and plate

Tempers in record: O

Selected physical properties

Density: 2690 kg/m³

Temper: Not specified | Form: Sheet and plate | Condition: Temperature not specified; supplier indicative reference

Basis: typical | Verification: single-source | Source: aalco5251 | Checked: 2026-10-14

Selected mechanical properties

O | Sheet and plate

Tensile strength	Yield / proof strength	Thickness / specimen scope
160-200 MPa	60 MPa	0.2-50.00 mm; BS EN 485-2:2008 cited by supplier

Condition: Supplier cites historic EN edition; not an authorized standard table or certification

Basis: indicative-range | Verification: single-source | Source: aalco5251 | Checked: 2026-10-14

Alloy 5251 / Composition and sources

Selected chemistry

No chemistry values published in this partial record.

Applications and selection guidance

Applications:

Only the O-condition strength row is imported. A heading elsewhere in the source names a different grade, so no additional temper compatibility is inferred from that section.

Source register

aalco5251 | Aalco 5251 sheet reference

Revision / access scope: Public indicative sheet; cites historical EN revisions; currency not guaranteed | Checked: 2026-10-14

https://www.aalco.co.uk/datasheets/Aluminium-Alloy-5251-0-Sheet-and-Plate_141.ashx

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