

Alloy 6005A

6000 series | Reference sheet | Data checked 14 October 2026

A heat-treatable extrusion alloy for solid and hollow structural sections. The letter suffix identifies a distinct designation; it is not interchangeable with 6005.

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: Extruded profiles

Tempers in record: T1, T5, T61

Selected physical properties

Thermal conductivity: 188 W/(m·K)

Temper: T61 | Form: Extrusion | Condition: 25 °C

Basis: typical | Verification: single-source | Source: hydro6005a | Checked: 2026-10-14

Selected mechanical properties

T61 | Extrusion

Tensile strength	Yield / proof strength	Thickness / specimen scope
260 MPa	240 MPa	≤6.30 mm

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

Basis: source-minimum | Verification: single-source | Source: hydro6005a | Checked: 2026-10-14

Alloy 6005A / Composition and sources

Selected chemistry

No chemistry values published in this partial record.

Applications and selection guidance

Applications:

Match the complete designation and temper. The chemistry reference includes a combined manganese-plus-chromium limit; composition is withheld until those compound constraints are represented in the data model.

Source register

hydro6005a | Hydro 6005A extrusion data

Revision / access scope: 2019/02 (March 2019) | Checked: 2026-10-14

https://www.hydro.com/globalassets/01-products--services/extruded-profiles/americas/ena-resources/alloy-data-sheets/hydro_2019_data_sheet_6005a_revise_1.pdf

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