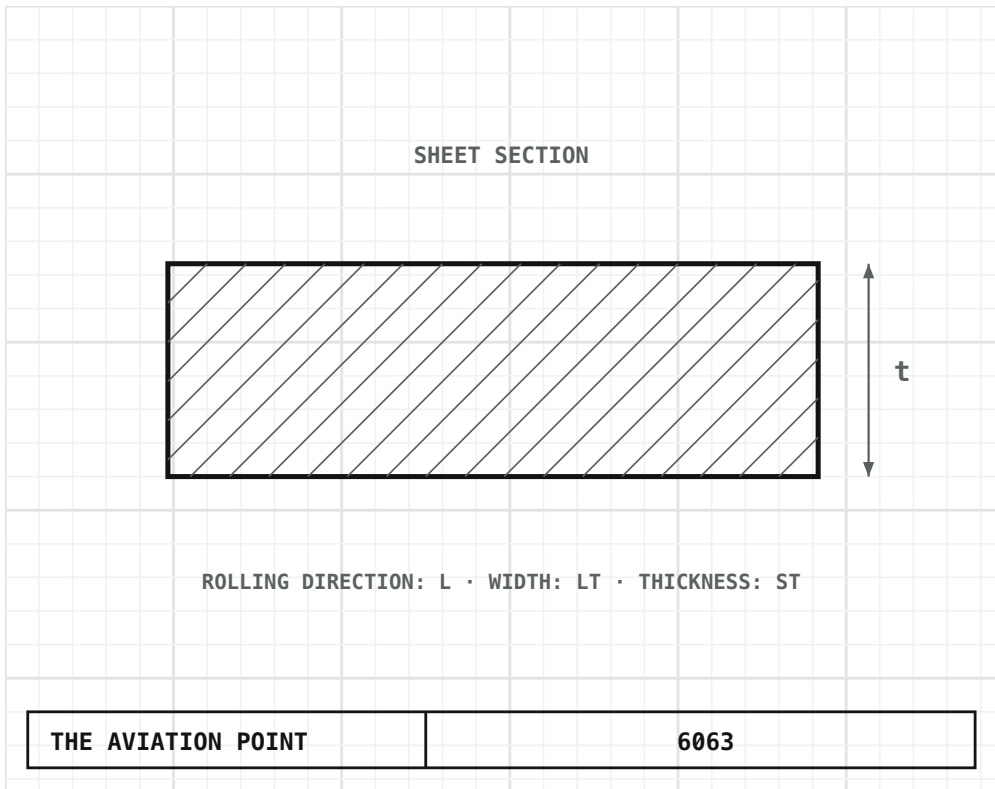
THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM

6063 — wrought aluminum alloy

An extrusion alloy that the usual aircraft references leave out.



Schematic

Designation

Item	Value
Designation	6063
Class	Aluminum
Type	wrought aluminum alloy

Composition

Element	Limit
Si	0.20–0.6
Fe	0.35
Cu	0.10
Mn	0.10
Mg	0.45–0.9
Cr	0.10
Zn	0.10
Ti	0.10
Al	Remainder

A single number is a maximum. Other elements: 0.05 each, 0.15 total, except where the Teal Sheets say otherwise. Source: Aluminum Association Teal Sheets (Aug 2018).

Properties

Property	Value	Source
Density	0.097 lb/in³ (2.70 g/cm³)	Teal Sheets
Aerospace specification	AMS 4156: extrusions, 6063-T6	SAE AMS4156 title
In MIL-HDBK-5J	Not listed	MIL-HDBK-5J Table 3.1.1
In AC 43.13-1B	Not listed	AC 43.13-1B

No strength value is given here because none of the sources used by this site prints one. Use the AMS specification and the mill certificate.

Notes

- **Not a source of design allowables.** Values are for reference. MMPDS and the SRM govern a repair.
- **Not a substitution approval.** A different alloy or temper needs approved data.

SOURCES · Aluminum Association, International Alloy Designations, rev. Aug 2018 · SAE AMS4156, Aluminum Alloy, Extrusions, 6063-T6 · MIL-HDBK-5J, Chapter 3 · FAA AC 43.13-1B CHG 1, Chapters 4 and 7 · MMPDS

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/materials/6063/