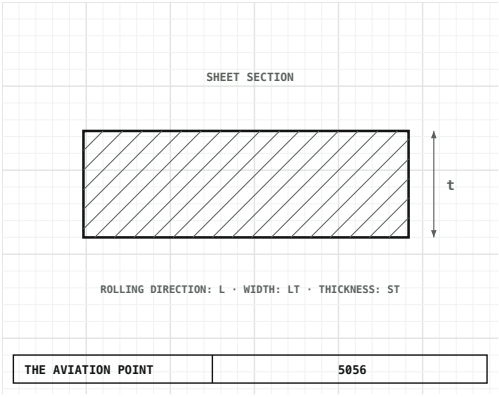
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5056 — wrought aluminum alloy

The rivet alloy for magnesium.



Schematic

Designation

Item	Value
Designation	5056
Class	Aluminum
Type	wrought aluminum alloy

Composition

Element	Limit
Si	0.30
Fe	0.40
Cu	0.10
Mn	0.05–0.20
Mg	4.5–5.6
Cr	0.05–0.20
Zn	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	0.095 lb/in³ (2.64 g/cm³)	Teal Sheets
Rivet shear, driven 5056-H321	28 ksi	MIL-HDBK-5J Table 8.1.2(b)
Rivet shear, undriven 5056-H32	24 ksi	MIL-HDBK-5J Table 8.1.2(b)
Rivet code and head	B, raised cross	AC 43.13-1B Table 4-8

MIL-HDBK-5J has no bulk allowables table for 5056: it appears as a rivet material in Chapter 8.

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 · FAA AC 43.13-1B CHG 1, Chapters 4 and 7 · FAA-H-8083-31B, AMT Handbook — Airframe, Volume 1, Chapter 4 · MIL-HDBK-5J, Chapter 3 · Aluminum Association, International Alloy Designations, rev. Aug 2018 · MMPDS

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/materials/5056/

Reference data. The aircraft manufacturer's documentation (SRM / IPC) takes precedence.

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