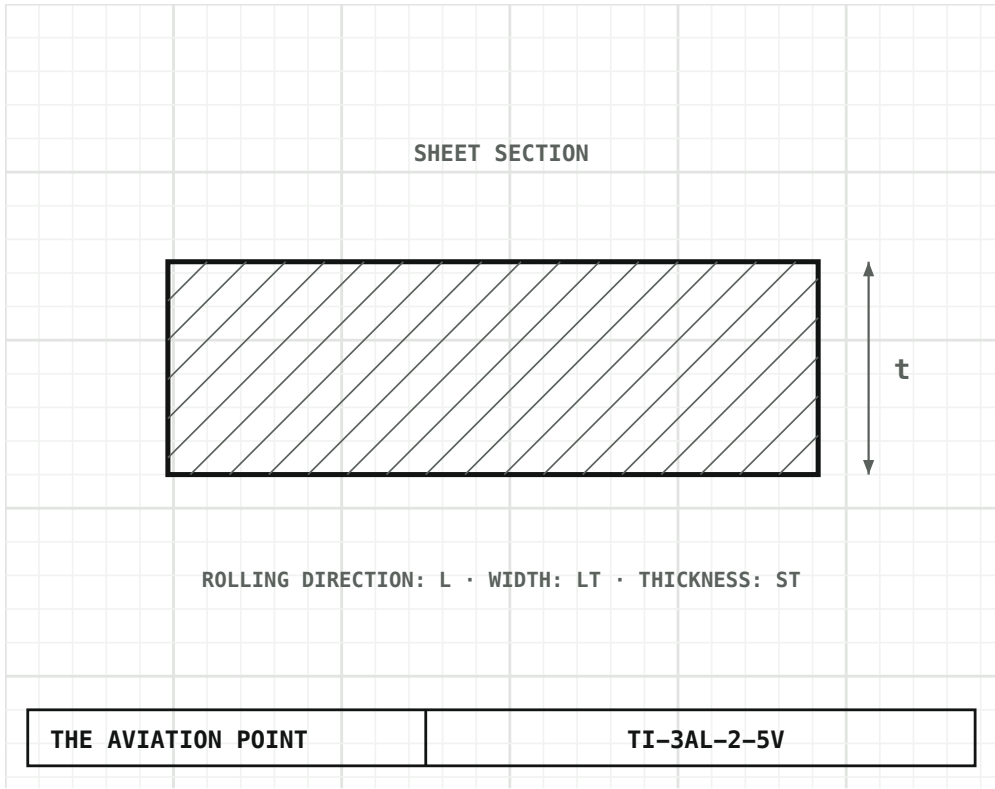
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Ti-3Al-2.5V — titanium alloy

The titanium of hydraulic tubing.



Schematic

Designation

Item	Value
Designation	Ti-3Al-2.5V
Class	Titanium
Type	titanium alloy

Composition

Item	Limit	Source
Composition	Aluminum 2.5–3.5 %, vanadium 2.0–3.0 %, balance titanium	ASTM B265-10 Table 2 (Grade 9)

Properties

Property	Value	Source
Tubing, annealed	AMS 4943, hydraulic seamless tubing, 3.0Al-2.5V	SAE AMS 4943 (title)
Tubing, cold worked and stress relieved	AMS 4944, hydraulic tubing, 3.0Al-2.5V	SAE AMS 4944 (title)
Allowables	None in MIL-HDBK-5J (checked); use the AMS minimums or MMPDS	MIL-HDBK-5J
Filler (titanium)	ERTi-5, AMS 4954, AWS A5.16, is the titanium rod in the AC table; the manufacturer matches the rod to this alloy	AC 43.13-1B Table 4-15

Notes

- **No strength values here.** The public handbook does not list the alloy.
- **Tube replacement is by part number.**

SOURCES · FAA AC 43.13-1B CHG 1 · FAA-H-8083-31B, Aviation Maintenance Technician Handbook, Airframe, Volume 1 · SAE AMS 4943 and AMS 4944 · FAA AC 43.13-1B CHG 1 · MMPDS · ASTM B265, Titanium and Titanium Alloy Strip, Sheet, and Plate

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