MTR AUDIT SUMMARY

Ti-6Al-4V ELI · Heat 0Y7K-2291

▲ 1 DEVIATION ✓ 11 PASS ● 1 REVIEW

Out of specification: see deviations below.

Specification limits used here are a DRAFT and have not been verified against the licensed standard. Pass marks below are not valid for release until they are.

SPECIFICATION	ASTM F136 · Ti-6Al-4V ELI
LIMITS STATUS	DRAFT — not verified against the licensed standard
MILL	Sample Titanium Mill (fictitious)
COUNTRY OF MELT (AS READ)	USA
SOURCE FILE	MTR_Ti64ELI_0Y7K-2291.pdf
SOURCE SHA-256	47041a01b17b892a57b5f5083b6bd0170974389a423efa6b5f31e137fa909540
PROCESSED (UTC)	2026-10-24 15:12:09
READING	pdf-text-layer → heuristic-text-layer
ENGINE	arzen-engine/1.0.0 · result 6bbd8ae458c9

Results

Property	Measured	Requirement	Result	Source
Heat number	0Y7K-2291	—	✓ PASS	p1
Specification limits These limits are a draft and have not been verified against the licensed edition of the standard. A PASS cannot be issued until they are.	ASTM F136 · Ti-6Al-4V ELI	—	● REVIEW	—
Carbon (C)	0.02 %	≤ 0.08 %	✓ PASS	p1
Aluminum (Al)	6.10 %	5.50–6.50 %	✓ PASS	p1
Vanadium (V)	4.00 %	3.50–4.50 %	✓ PASS	p1
Iron (Fe) Fe is 0.27 %. Limit is ≤ 0.25 % (ASTM F136).	0.27 %	≤ 0.25 %	▲ DEVIATION	p1
Nitrogen (N)	0.01 %	≤ 0.05 %	✓ PASS	p1
Oxygen (O)	0.11 %	≤ 0.13 %	✓ PASS	p1
Hydrogen (H)	0.0045 %	≤ 0.012 %	✓ PASS	p1
Tensile strength	131.3 ksi (905.3 MPa)	≥ 860 MPa	✓ PASS	p1
Yield strength (0.2 %)	120.4 ksi (830.1 MPa)	≥ 795 MPa	✓ PASS	p1
Elongation	14 %	≥ 10 %	✓ PASS	p1
Reduction of area	38 %	≥ 25 %	✓ PASS	p1

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What was not checked

- Approved-mill list not configured: mill name recorded, not checked.
- Country of melt recorded as read: USA. Not checked against any requirement.
- Limits apply to: Bar/wire, annealed. Confirm the product form and size match the material received.

Reading is separate from deciding: values were read from the source document (OCR and an extraction model) and every pass/fail decision was made by fixed rules against the limits shown. Low-confidence reads are never passed silently.

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