



Aerospace Applications

Titanium Alloy Bar AMS 4928

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| FEATURES | Excellent Strength to density Ratio (Weight Saving) , Good compatibility with Graphite Composites , Strong Corrosion resistance, Excellent Fatigue Strength & Crack Resistance |
| END USE | Aerospace Components, Fasteners, Fitting , Weld Wire |

| AMS 4928 | | CHEMICAL COMPOSITION % | | | | | | | | | |
|-----------|-----------|------------------------|-----------|------------|-----------|-----------|-----------|-----------|------------|-------|------|
| Grade | N Max. | C Max. | H Max. | Fe Max. | O Max. | Y Max. | Al | V | Residual % | | Ti |
| | | | | | | | | | each | total | |
| Ti-6Al-4V | 0.05 | 0.08 | 0.0125 | 0.30 | 0.20 | 0.005 | 5.50-6.75 | 3.50-4.50 | 0.1 | 0.4 | Bal. |

| AMS 4928 | | MECHANICAL PROPERTIES , ANNEALED | | | | | |
|-----------|----------------------------|----------------------------------|-------------------------------|-----|---------------------------|--------------------------|--|
| Grade | Tensile Strength (Rm) Min. | | Yield Strength (Rp) 0.2% Min. | | Elongation , 4D % Min. | Area Reduction % Min. | |
| | ksi | MPa | ksi | MPa | | | |
| Ti-6Al-4V | 135 | 930 | 125 | 860 | 10 | 25 | |

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| SIZE RANGE | Bar ϕ : 0.12" - 2.0" (3.0mm - 50.0mm) |
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| TOLERANCE | Peeled 0.8"-2.0" (20.0mm-50.0mm) | ISO h10 (h9) |
| | Ground & Polished 0.12"-0.86" (3.0mm-22.0mm) | ISO h7 (h6) |
| | <ul style="list-style-type: none"> · Surface finish Ra $\leq 0.8\mu\text{m}$ · Straightness Max.0.5m/m · End chamfering $\phi > 3.0\text{mm}$ | |

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| CRACK DETECTION On Request | <ul style="list-style-type: none"> · Eddy current crack test according to EN 10277-1 , Tab.1 Dia.$\phi < 2.00\text{mm}$ class 1 Dia.$\phi > 2.00\text{mm}$ class 3 · Ultrasonic Inspection ($\phi \geq 6\text{mm}$) : acc. to AMS-STD-2154 (2010-11) class AA |
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| GRAIN SIZE | · According to ETTC2 : A1-A7 |
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Contact us at info@appliedtitanium.com
to learn more about **ATA™ Titanium Alloy Bar_ Aerospace**

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