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The Aviation Point

Aircraft titanium grades: which one for which job

Commercially pure grades for forming and corrosion, alloys for strength.

Titanium grades

Material	What it is for
CP Titanium Grade 1	Commercially pure titanium Grade 1 for aircraft: 35 ksi minimum tensile, 25 ksi yield, AMS-T-9046 (CP-4), form
CP Titanium Grade 2	Commercially pure titanium Grade 2 for aircraft: 50 ksi minimum tensile, 40 ksi yield, AMS 4902 and AMS-T-9046
CP Titanium Grade 3	Commercially pure titanium Grade 3 for aircraft: 65 ksi minimum tensile, 55 ksi yield, AMS 4900 and AMS-T-9046
CP Titanium Grade 4	Commercially pure titanium Grade 4 for aircraft: 80 ksi minimum tensile, 70 ksi yield, AMS 4901 and AMS-T-9046
Ti-3Al-2.5V Titanium	Ti-3Al-2.5V (Grade 9) titanium for aircraft: hydraulic tubing to AMS 4943 and AMS 4944, how it differs from CP
Ti-6Al-2Sn-4Zr-2Mo Titanium	Ti-6Al-2Sn-4Zr-2Mo (Ti-6-2-4-2) titanium for aircraft: AMS 4919 sheet, 135 ksi, creep stable to 1,050 °F, form
Ti-6Al-4V Titanium	Ti-6Al-4V titanium for aircraft: density, forming with stress relief, drilling rules, galvanic and hydrogen ri

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Educational reference only, not approved data. Always consult the applicable SRM, AMM, or AC 43.13-1B and your certifying authority.