AMS 4911 - Titanium 6AL4V Sheets

Typical Applications

Medical Implants

Turbine Blades

Fasteners

Motor Racing applications

Aircraft Structural Components

6AL4V Sheet and Plate (AMS 4911) is a high-performance titanium alloy product form that adheres to the rigorous standards set forth in the Aerospace Material Specification (AMS) 4911.

Manufactured in sheet and plate forms, 6AL4V (AMS 4911) retains the exceptional attributes that have made this alloy a preferred choice across multiple industries. The combination of impressive strength relative to its weight, corrosion resistance, and biocompatibility positions 6AL4V as a material well-suited for structural and component applications across multiple industries.

The sheet and plate products are particularly advantageous in scenarios where dimensional accuracy, flatness, and uniform thickness are essential, this allows precise manufacturing techniques, such as machining, forming, and fabrication, allowing for the creation of intricate, complex components that adhere to stringent tolerance requirements.

In the aerospace sector, 6AL4V (AMS 4911) sheets and plates find applications in the construction of aircraft structures, engine components, and other critical parts subject to extreme loads and harsh environments.

Beyond aerospace, the biocompatibility of 6AL4V (AMS 4911) sheets and plates makes them suitable for the manufacturing of medical implants, surgical instruments, and other healthcare-related products.

Related Products

6246

6Al4V Bar

6Al4V Sheet

Grade 1 Sheet Plate

Grade 2 Bar

Grade 2 Sheet Plate

Grade 2 Tube Welded

Grade 3 Sheet Plate

Grade 4 Bar

Grade 4 Sheet Plate

Grade 9 Tube

Technical specification

Related Specifications

AMS 4911

Mil T 9046

ASTM B265

TA10

TA56

TA59

UNS R56400

MSRR 8633

Specific Gravity

4.484 g/cm3

Chemical Composition (WT %)

	Min	Max
C	-	0.08
Al	5.5	6.5
N	-	0.05
O	-	0.2
Ti	-	Bal
V	3.50	4.50
Fe	-	0.25
H	-	0.01
Y	-	0.005

Typical Mechanical Properties in the Annealed condition

0.2% Proof Stress	MPA	Min	830
Tensile Strength	MPA	Min	900
Elongation	%	Min	8
Reduction of Area	%	Min	20

Hardness	HRC	-	36

Need more information? ***Get in touch***

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