

# AMS 4921, Titanium Grade 4 Bar

## *Typical Applications*

Aerospace Components

Cryogenic vessels

Hydrometallurgy

Medical and Dental devices



*Titanium Grade 4 is a commercially pure form of titanium and has the highest strength of all the commercially pure titaniums.*

It has excellent corrosion resistance in a wide variety of environments. Grade 4 (ASTM B348, AMS 4921, UNS R50700) can be found in aerospace, medical and industrial applications where high strength is needed.

## **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*

**ASTM B348**

**TA 7**

**AMS 4921**

**ASTM F67**

**UNS R50700**

**Mil T 9047**

### *Specific Gravity*

**4.51 g/cm<sup>3</sup>**

### *Chemical Composition (WT %)*

	Min	Max
<b>C</b>	-	0.08

<b>N</b>	-	0.05
<b>O</b>	-	0.40
<b>Ti</b>	-	Bal
<b>Fe</b>	-	0.50
<b>H</b>	-	0.015
<b>Other</b>	-	0.40

### *Typical Mechanical Properties in the Annealed condition*

<b>0.2% Proof Stress</b>	MPA	483
<b>Tensile Strength</b>	MPA	552
<b>Elongation</b>	%	15
<b>Reduction of Area</b>	%	25
<b>Hardness</b>	HRB	100

This data has been supplied in good faith and is intended only as a guide. It is not intended to be used as a substitute for a certificate of analysis. The data is provided for information only and is not intended to be used as a substitute for a certificate of analysis. The data is provided for information only and is not intended to be used as a substitute for a certificate of analysis.

The accuracy of the mechanical properties listed herein is dependent on the quality of the material and the test method used. The data is provided for information only and is not intended to be used as a substitute for a certificate of analysis.

The mechanical properties listed herein are based on the standard test method. The data is provided for information only and is not intended to be used as a substitute for a certificate of analysis.

Where appropriate, specific details of the test method used are given in the standard test method. The data is provided for information only and is not intended to be used as a substitute for a certificate of analysis.

As the products described here are made to order, the data is provided for information only and is not intended to be used as a substitute for a certificate of analysis. The data is provided for information only and is not intended to be used as a substitute for a certificate of analysis.

Where possible, specific details of the test method used are given in the standard test method. The data is provided for information only and is not intended to be used as a substitute for a certificate of analysis.

All mechanical properties are given in the standard test method. The data is provided for information only and is not intended to be used as a substitute for a certificate of analysis.

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

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