

# AMS 4901 - Titanium Grade 4 Sheet Plate

## *Typical Applications*

Cryogenic vessels  
Medical and Dental devices  
Food processing  
Hydrometallurgy  
Tubing  
Aerospace components

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

It has a higher strength to weight ratio than 301 stainless with excellent corrosion / erosion resistance in a wide variety of environments. Grade 4 (AMS 4901, ASTM B265, UNS R50700) can be found in aerospace, medical and industrial applications where high strength is needed.

## Technical specification

### *Related Specifications*

**AMS 4901**

**UNS R50700**

**Mil T 9046**

**ASTM B265**

### *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 |

Note Grade 4

Need more information? **Get in touch**

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