

## CP GRADE 2 TITANIUM SHEET

Titanium is an amazingly lightweight metal (approximately 60% of the density of steel) with outstanding corrosion resistance. Its unprecedented strength and high melting point (over 3,000° F), make it an obvious material choice for the aircraft and motorsports industries. In fact, over half the titanium produced is for aerospace alone!

CP Grade 2 Commercially Pure Titanium, or "CP Gr2," is one of the most widely used titanium grades in all product forms. Sometimes referred as the "garden variety, grade, CP Grade 2 provides an excellent balance of moderate strength and reasonable ductility. Additionally, it offers high corrosion resistance in highly oxidizing and mildly reducing environments, including chlorides. CP Grade 2 is typically supplied in the annealed condition.

### CP Grade 2 Titanium Chemical Analysis

C (max)	N (max)	O (max)	Fe (max)	H (max)	Other, Total (max)	Titanium
.08	.03	.25	.20	.015	.40	balance

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It is important to understand that there are grades of titanium for aerospace and for non-aerospace applications. Aerospace grades meet "AMS" specifications and non-aerospace grades meet ASTM specs. The same material may be approved for one type of application, but not necessarily for others.

Our stock of CP Grade 2 sheets are the non-aerospace grade, although we can and often supply the aerospace grades by special order. It should also be noted that "CP Grade 2" is not the same as "CP-2", which is an aerospace grade. Our stock of titanium sheets are commonly produced in 48" x 120" dimensions. The best pricing is always when you order full sheets, which can be cut for economical shipping methods. AED also offers "cut-to-size" pieces.

This material meets ASTM B265 or ASTM B348.

Additionally, as of this writing, we have some specially priced remnants of aerospace CP Grade 2 (which meets AMS 4902) in thicknesses from .039" to .050" in several widths and lengths.

### CP Grade 2 Titanium Sheet Typical Mechanical Properties:

<b>Tensile Strength (psi)</b>	50,000 min
<b>Yield Strength (psi)</b>	40,000 min / 65,000 max
<b>Elongation (% in 2")</b>	20
<b>Mean Reduction of Area (%)</b>	30
<b>Rockwell B Hardness</b>	82

Note: "Typical Mechanical Properties" have been compiled from a variety of sources. Information is deemed reliable, but it is not guaranteed. This data is provided for information only, **NOT FOR DESIGN PURPOSES.**