PRODUCT DETAILS





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

CP GRADE TITANIUM SHEET

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.

Sheet Typical Mechanical Troperties.					
Tensile Strength (psi)	50,000 min				
Yield Strength (psi)	40,000 min / 65,000 max				
Elongation (% in 2")	20				
Mean Reduction of Area (%)	30				
Rockwell B Hardness	82				

CP Grade 2 Titanium Sheet Typical Mechanical Properties:

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**.

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