CP Grade 2

Smiths Advanced Metals

Rev: SAM/datasheets/titanium/cp-grade-2-sheet/feb-2022

Unalloyed Titanium Sheet

CP Grade 2 is commercially pure titanium that we supply in the annealed condition.

CP Grade 2 is a moderately strong titanium alloy that is one of the most frequently utilised commercially pure aluminium products today.

Performance features of the alloy include good formability and ductility as well as excellent weldability. The alloy is 60% less dense than steel and performs well in various corrosive atmospheres such as chemical and marine environments. The alloy fully resists the corrosive effects of saltwater up to a temperature of 315° C. We stock CP Grade 2 Titanium sheet in the annealed condition in various sizes.

Grades / Specifications

- AMS4902
- BS TA2, BS TA3, BS TA4, BS TA5
- ASTM B265
- ASNA3201
- 3.7034

Benefits

- Excellent corrosion resistance in seawater
- Excellent machinability
- Stronger than CP Grade 1
- Moderate strength



Page: 1 of 1



Key Applications

- Marine applications
- Aerospace parts
- Medical applications
- Chemical processing

*Chemical Composition (weight %)										
	Ti	С	Fe	N ₂	0	Н	Others (each)	Others (total)		
min.	Bal									
max.	Bal	0.08	0.30	0.05	0.20	0.015	0.10	0.30		

* As per AMS 4902

*Mechanical Properties (unless indicated)								
	Minimum							
UTS, MPa	345							
0.2% PS, MPa	276 - 448							
Elongation on 2 in., %	20							

* Properties as per AMS 4902

www.smithsadvanced.com

ADVANCED METALS

Considerations for use

CP Grade 2 is appropriate for applications where a combination of corrosion resistance and formability is required.

The alloy is resistant to stress corrosion cracking (SCC), particularly in water. The alloy is susceptible to crevice corrosion, and therefore, care should be taken during the design process to ensure that joints are kept to a minimum. The titanium alloy is ideal for use in chemical and saltwater environments, including subs-sea and above-sea applications.



All information in our data sheet is based on approximate testing and is stated to the best of our knowledge and belief. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of trading. © Smiths Advanced Metals 2023

info@**smithsadvanced**.com