



## Ti Gr 9 / 3.7194

Titanium Alloy ( 3AL/2.5V) Grade 9 is sometimes referred to as half Ti 6/4. It offers higher strengths than the commercially pure alloys , and is easier to form than the Ti 6AL/4V "work horse alloy". Its main available form is seamless tubing used in the aircraft and leisure industries such as bicycle frames and golf clubs etc . Typically this alloy is supplied in two Conditions Annealed and CWSR ( Cold Worked & Stress Relieved)

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### Applications

Used in aircraft applications where strength is required but weight is a critical factor. Ti-3Al-2.5V is used in tubular form since it has proven to be much more malleable than Ti-6-4 and has useful properties for applications in hydraulic systems. Ti-3Al-2.5V titanium tubing can be cold worked by standard tube manufacturing processes or supplied in the annealed condition. Other applications include, bicycle and wheel chairs frames.

### Material Data Sheet Ti Gr 9

Material No.	3.7194
Alloy	Titanium 3AL- 2.5V
UNS	UNS R56320
Norm/Standard	Titanium 3-2.5

### Chemical Composition Ti Gr 9

Al	V	Ti	O	C
%	%		%	%
2.5-3.5	2.0-3.0	Rest	0.15 max	0.06 max
Ni	H	Fe	Others	
%	%	≤ %	%	
0.03 max	0.015 max	0.25	0.04 max	

### Special Properties Ti Gr 9

*Melting Range < 1700 Deg C*

*Density 4.48 g/cm³*

*Elastic Modulus 100 GPa*

*Shear Modulus 44 GPa*

Excellent Resistance to pitting and crevice / erosion corrosion

*High Mechanical strengths , superior to the C. P Titanium Grades*

### Specifications Ti Gr 9

The Hempel stock material fulfills generally following specifications:

ASTM B338 Fully Annealed

ASTM B338 CWSR

AMS 4943/4/5

The material comes with a 3.1 certification.

3.2 certification are available with surcharge.

### Mechanical Properties Ti Gr 9

UTS	0.2 % Yield	Elongation 2"
	MPa	MPa
Annealed	620	485
CWSR	861	724

### Delivery program

Tubes / Fittings ISO6708

<DN65

## Material Outlet by Hempel

ECONOXX.com offers buyers a new and uncomplicated procurement channel, which also includes small quantities and materials in special alloys at favourable conditions.

## Contact us



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## Services



Waterjet cutting



Laser cutting



Plasma cutting



Shear cutting

## Weight Calculator