

# Ti-6Al-4V ELI Titanium - AMS 4930 - UNS R56401 Extra Low Interstitial

Ti-6Al-4V ELI Titanium is a variant of Ti-6Al-4V Titanium with lower content of carbon, iron, and oxygen. It's used for medical implant devices to take advantage of Titanium's biocompatibility. Other uses include marine and oil-gas applications.

## Chemical Composition:

Symbol	Element	Min %	Max %
Al	Aluminum	5.50%	6.50%
V	Vanadium	3.50%	4.50%
Fe	Iron		0.25%
O	Oxygen		0.13%
C	Carbon		0.08%
N	Nitrogen		0.05%
H	Hydrogen		0.0125%
Y	Yttrium		0.005%
	Other, each		0.100%
	Other, total		0.400%
Ti	Titanium		Remainder

## Mechanical Properties:

Density	Tensile Strength	Yield Strength	Elongation	Reduction of Area
0.163 #/in <sup>3</sup>	120 ksi	110 ksi	8% min	15% min

## Applications:

Medical implant devices  
 Marine usage  
 Oil and Gas applications

## Common Trade Names:

Ti 6-4 ELI Titanium  
 Ti 64 ELI  
 6Al4V ELI Titanium  
 Alpha Beta Titanium  
 Grade 23 Titanium

Ti-Grade 23

6%Al-4%V ELI Titanium

ASTM Grade 23

ASTM B348 Grade 23

SAE 4928

**Common Specifications:**

AMS 4905

AMS 4907

AMS 4930

AMS 4931

AMS 4956

AMS 4996

AMS 6932

ASTM F 136

ASTM B 348

MIL-T-9047