

ATLAS BALL & BEARING CO. LIMITED

6Al4V ELI TITANIUM BALL DATA SHEET

Attributes

6Al4V ELI is a higher purity ('extra low interstitial') version of 6Al4V with lower specified limits on iron and the interstitial elements C and O. A low weight, high strength, biocompatible material.

Specification with equivalents

6Al4V ELI
ASTM F136 - 84
AFNOR TA6V Eli
DIN 3.7165
UNS R56401

Chemical Analysis (%)

Ni	0.05 max	O	0.13 max
C	0.08 max	Al	5.5-6.5
H	0.012 max	V	3.5-4.5
Fe	0.25 max	Ti	Bal

Typical Uses/Applications

Body Jewellery
Medical implants
Aircraft components

Mechanical/Physical Properties

Hardness: 320-330 HB
Melting range: 1540-1760°C
Specific Gravity: 4.47 g/cm³
Density: 0.157 lb/in³
Magnetic properties: Non magnetic
Poisson's ratio 0.30-0.33
Modulus of Elasticity 105-116 GPa

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Whilst every care has been taken we cannot accept liability for any errors contained within this data sheet

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