

ATLAS BALL & BEARING CO. LIMITED

6Al4V ELI TITANIUM BALL DATA SHEET

Attributes

Low weight, high strength biocompatible material. Immune to corrosive attacks by salt water or marine atmospheres and exhibits exceptional resistance to a broad range of acids, alkalis and industrial chemicals

Specification with equivalents

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

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
Poissons ratio 0.30-0.33
Modulus of Elasticity 105-116 GPa

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

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