

# Grade 23 Titanium/Aluminum/Vanadium Alloy Foil (Ti90/Al 6/V 4)

**Grade:** Grade 23  
**Standard:** ASTM B265 Chemistry only  
**Formula:** Ti90/Al 6/V 4  
**Temper:** Annealed  
**Thickness:** 1mm  
**Length 1:** 10mm  
**Length 2:** 10mm  
**UOM Code:** 914-335-57  
**SKU:** 1000216391-group  
**Product Code:** TI01-FL-000202

## Material Properties for Alloys

### Mechanical Properties

Element	Value
Elongation at break( % )	>10
Modulus of elasticity( GPa )	106-114
Izod impact strength( J m <sup>21</sup> )	20
Tensile strength( MPa )	895

### Electrical Properties

Element	Value
Electrical resistivity( μOhmcm )	168
Temperature coefficient( K <sup>21</sup> )	0.0004

### Thermal Properties

Element	Value
Melting point( C )	1600-1650
Thermal conductivity( W m <sup>21</sup> K <sup>21</sup> )	5.8@23
Thermal conductivity( W m <sup>21</sup> K <sup>21</sup> )	5.8@23C
Coefficient of thermal expansion( x10 <sup>??</sup> K <sup>21</sup> )	8@20-100
Coefficient of thermal expansion( x10 <sup>??</sup> K <sup>21</sup> )	8.0@20-100C

## Physical Properties

Element	Value
Density( gcm <sup>3</sup> )	4.42