

# Titanium/Aluminum/Vanadium Alloy Disk (Ti90/Al 6/V 4)

**Formula:** Ti90/Al 6/V 4

**Temper:** Annealed

**Thickness:** 0.05mm

**Diameter:** 6.35mm

**UOM Code:** 104-343-89

**SKU:** 1000017634-group

**Product Code:** TI01-FL-000151

## Material Properties for Alloys

### Mechanical Properties

Element	Value
Elongation at break( % )	>10
Modulus of elasticity( GPa )	106-114
Izod impact strength( J m <sup>-1</sup> )	20
Tensile strength( MPa )	895

### Electrical Properties

Element	Value
Electrical resistivity( $\mu\text{Ohmcm}$ )	168
Temperature coefficient( K <sup>-1</sup> )	0.0004

### Thermal Properties

Element	Value
Melting point( C )	1600-1650
Thermal conductivity( W m <sup>-1</sup> K <sup>-1</sup> )	5.8@23
Thermal conductivity( W m <sup>-1</sup> K <sup>-1</sup> )	5.8@23C
Coefficient of thermal expansion( $\times 10^{-6}$ K <sup>-1</sup> )	8@20-100
Coefficient of thermal expansion( $\times 10^{-6}$ K <sup>-1</sup> )	8.0@20-100C

### Physical Properties

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