

# Grade 5 Titanium/Aluminum/Vanadium Alloy Disk (Ti90/Al 6/V 4)

**Grade:** Grade 5

**Standard:** ASTM B265

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

**Temper:** Annealed

**Thickness:** 0.1mm

**Diameter:** 23.5mm

**UOM Code:** 102-150-02

**SKU:** 1000015628-group

**Product Code:** TI01-FL-000102

## Material Properties for Alloys

### Mechanical Properties

Element	Value
Elongation at break( % )	>10
Modulus of elasticity( GPa )	106-114
Izod impact strength( J m <sup>2</sup> )	20
Tensile strength( MPa )	895

### Electrical Properties

Element	Value
Electrical resistivity( μOhmcm )	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( x10 <sup>-6</sup> K <sup>-1</sup> )	8@20-100
Coefficient of thermal expansion( x10 <sup>-6</sup> K <sup>-1</sup> )	8.0@20-100C

## Physical Properties

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