

# Grade 200 Titanium/Aluminum/Vanadium Alloy Balls (Ti90/Al 6/V 4)

**Grade:** Grade 200  
**Formula:** Ti90/Al 6/V 4  
**Diameter:** 2mm  
**Quantity:** 100 Pcs  
**Type:** Precision Sphere  
**Sphericity:** 5.08 $\mu$ m  
**UOM Code:** 223-789-45  
**SKU:** 1000093279-group  
**Product Code:** TI01-SP-000120

## Material Properties for Alloys

### Mechanical Properties

Element	Value
Elongation at break( % )	>10
Modulus of elasticity( GPa )	106-114
Izod impact strength( J m <sup>3/2</sup> )	20
Tensile strength( MPa )	895

### Electrical Properties

Element	Value
Electrical resistivity( $\mu$ 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

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