

Titanium Balls

Formula: Ti

Percentage Purity: 99.6%

Diameter: 3mm

Quantity: 200 Pcs

CAS Number: 7440-32-6

UOM Code: 347-398-37

SKU: 1000145723-group

Product Code: TI00-SP-000130

Material Properties for Metals

Atomic Properties

Element	Value
Atomic number	22
Crystal structure	Hexagonal close packed
Electronic structure	Ar 3d ² 4s ²
Valences shown	2,3,4
Atomic weight(amu)	47.88
Thermal neutron absorption cross-section(Barns)	6.1
Photo-electric work function(eV)	4.1
Natural isotope distribution(Mass No./%)	50/ 5.3
Natural isotope distribution(Mass No./%)	49/ 5.5
Natural isotope distribution(Mass No./%)	46/ 8.0
Natural isotope distribution(Mass No./%)	48/ 73.7
Natural isotope distribution(Mass No./%)	47/ 7.5
Atomic radius - Goldschmidt(nm)	0.147
Ionisation potential(No./eV)	3/ 27.5
Ionisation potential(No./eV)	4/ 43.3
Ionisation potential(No./eV)	5/ 99.2
Ionisation potential(No./eV)	1/ 6.82
Ionisation potential(No./eV)	2/ 13.6
Ionisation potential(No./eV)	6/ 119

Mechanical Properties

Element	Value
Material condition	Polycrystalline
Material condition	Annealed
Poisson's ratio	0.361
Poisson's ratio	0.361
Poisson's ratio	-
Bulk modulus(GPa)	108.4
Bulk modulus(GPa)	-
Bulk modulus(GPa)	108.4
Tensile modulus(GPa)	-
Tensile modulus(GPa)	120.2
Tensile modulus(GPa)	120.2
Izod toughness(J m ⁻¹)	61
Izod toughness(J m ⁻¹)	61
Hardness - Vickers(kgf mm ⁻²)	60
Hardness - Vickers(kgf mm ⁻²)	60
Tensile strength(MPa)	230-460
Tensile strength(MPa)	230-460
Yield strength(MPa)	140-250
Yield strength(MPa)	140-250

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	54@20@20°C
Superconductivity critical temperature(K)	0.4
Temperature coefficient(K ⁻¹)	0.0038@0-100°C

Physical Properties

Element	Value
Boiling point(C)	3287
Density(gcm ⁻³)	4.5@20°C

Thermal Properties

Element	Value
Melting point(C)	1660
Latent heat of evaporation(J g ⁻¹)	8893
Latent heat of fusion(J g ⁻¹)	365
Specific heat(J K ⁻¹ kg ⁻¹)	523@25°C
Thermal conductivity(W m ⁻¹ K ⁻¹)	21.9@0-100°C

Element**Value**

Coefficient of thermal expansion($\times 10^{-6} \text{ K}^{-1}$) 8.9@0-100°C