Barium Pellets

Barium pellets provide high density and reactivity for getter applications, deoxidation, alloy purification, and vacuum and metallurgical research systems. **SKU:** 1000031767-group
Product Code: BA00-LP-000100

Material Properties for Metals

Atomic Properties

Element	Value
Atomic number	56
Crystal structure	Body centred cubic
Electronic structure	Xe $6s^2$
Valences shown	2
Atomic weight(amu)	137.33
Thermal neutron absorption cross-section(Barns)	1.2
Photo-electric work function(eV)	2.5
Natural isotope distribution(Mass No./%)	135/ 6.6
Natural isotope distribution(Mass No./%)	130/ 0.1
Natural isotope distribution(Mass No./%)	136/ 7.9
Natural isotope distribution(Mass No./%)	138/ 71.7
Natural isotope distribution(Mass No./%)	132/ 0.1
Natural isotope distribution(Mass No./%)	137/ 11.2
Natural isotope distribution(Mass No./%)	134/ 2.4
Atomic radius - Goldschmidt(nm)	0.224
Ionisation potential(No./eV)	1/ 5.21
Ionisation potential(No./eV)	2/ 10.0

Mechanical Properties

Element	Value
Material condition	Polycrystalline
Poisson's ratio	0.28
Bulk modulus(GPa)	9.7
Tensile modulus(GPa)	12.8

Physical Properties

Element	Value
Boiling point(C)	1640
Density(gcm?³)	3.5@20°C

Thermal Properties

Element	Value
Melting point(C)	725
Latent heat of evaporation(J g?¹)	1100
Latent heat of fusion(J g?¹)	55.8
Specific heat(J K?¹ kg?¹)	192@25°C
Coefficient of thermal expansion(x10?? K?¹)	18@0-100°C