

Lanthanum Pellets

Formula: La

Percentage Purity: 99%

Maximum Lump Size: 25mm

Weight: 50g

CAS Number: 7439-91-0

UOM Code: 023-738-69

SKU: 1000002836-group

Product Code: LA00-LP-000100

Material Properties for Metals

Atomic Properties

Element	Value
Atomic number	57
Crystal structure	Hexagonal close packed/Face centred cubic
Electronic structure	Xe 5d ¹ 6s ²
Valences shown	3
Atomic weight(amu)	138.9055
Thermal neutron absorption cross-section(Barns)	8.9
Photo-electric work function(eV)	3.5
Natural isotope distribution(Mass No./%)	139/ 99.91
Natural isotope distribution(Mass No./%)	138/ 0.09
Atomic radius - Goldschmidt(nm)	0.187
Ionisation potential(No./eV)	3/ 19.18
Ionisation potential(No./eV)	1/ 5.58
Ionisation potential(No./eV)	2/ 11.06

Mechanical Properties

Element	Value
Material condition	Polycrystalline
Poisson's ratio	0.28
Bulk modulus(GPa)	24.8
Tensile modulus(GPa)	37.9
Hardness - Vickers(kgf mm ²)	40

Element	Value
Tensile strength(MPa)	131
Yield strength(MPa)	124

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	57@20@20°C
Superconductivity critical temperature(K)	4.88
Temperature coefficient(K^{-1})	0.00218@0-100°C

Physical Properties

Element	Value
Boiling point(C)	3457
Density(gcm^{-3})	6.174@20°C

Thermal Properties

Element	Value
Melting point(C)	921
Latent heat of evaporation(J g^{-1})	2897
Latent heat of fusion(J g^{-1})	60.2
Specific heat($\text{J K}^{-1} \text{kg}^{-1}$)	197@25°C
Thermal conductivity($\text{W m}^{-1} \text{K}^{-1}$)	13.4@0-100°C
Coefficient of thermal expansion($\times 10^{-6} \text{K}^{-1}$)	4.9@0-100°C