Selenium Foil (Light Tight)

Selenium foil light tight: photoconductive, chemically stable foil engineered to block light for detectors, spectrometers, and imaging systems requiring dark environments; supports optical test chambers and aerospace sensors. **SKU:** 1000180600-group
Product Code: SE00-FL-000100

Material Properties for Metals

Atomic Properties

Element	Value
Atomic number	34
Crystal structure	Hexagonal
Electronic structure	Ar 3d¹? 4s² 4p?
Valences shown	-2,4,6
Atomic weight(amu)	78.96
Thermal neutron absorption cross-section(Barns)	12.2
Photo-electric work function(eV)	5.9
Natural isotope distribution(Mass No./%)	76/ 9.0
Natural isotope distribution(Mass No./%)	82/ 9.2
Natural isotope distribution(Mass No./%)	74/ 0.9
Natural isotope distribution(Mass No./%)	80/ 49.8
Natural isotope distribution(Mass No./%)	77/ 7.6
Natural isotope distribution(Mass No./%)	78/ 23.5
Atomic radius - Goldschmidt(nm)	0.116
Ionisation potential(No./eV)	4/ 42.9
Ionisation potential(No./eV)	6/ 81.7
Ionisation potential(No./eV)	5/ 68.3
Ionisation potential(No./eV)	1/ 9.75
Ionisation potential(No./eV)	3/ 30.8
Ionisation potential(No./eV)	2/ 21.2

Mechanical Properties

Element	Value
Hardness - Mohs	2

Element	Value
Material condition	Polycrystalline
Poisson's ratio	0.447
Bulk modulus(GPa)	8.3
Tensile modulus(GPa)	58

Electrical Properties

Element	Value
Electrical resistivity(µOhmcm)	12@20°C

Physical Properties

Element	Value
Boiling point(C)	685
Density(gcm?³)	4.79@20°C

Thermal Properties

Element	Value
Melting point(C)	217
Latent heat of evaporation(J g?¹)	333
Latent heat of fusion(J g?¹)	69
Specific heat(J K?¹ kg?¹)	321@25°C
Thermal conductivity(W m?¹ K?¹)	0.5@0-100°C
Coefficient of thermal expansion(x10?? K?¹)	37@0-100°C