

Arsenic Pellets

Formula: As

Percentage Purity: 99.99%

Maximum Lump Size: 20mm

Weight: 100g

CAS Number: 7440-38-2

UOM Code: 035-836-49

SKU: 1000004761-group

Product Code: AS00-LP-000125

Material Properties for Metals

Atomic Properties

Element	Value
Atomic number	33
Crystal structure	Rhombohedral
Electronic structure	Ar 3d ¹⁰ 4s ² 4p ³
Valences shown	-3, 0, 3, 5
Atomic weight(amu)	74.9216
Thermal neutron absorption cross-section(Barns)	4.3
Photo-electric work function(eV)	5.1
Atomic radius - Goldschmidt(nm)	0.125
Ionisation potential(No./eV)	2/ 18.6
Ionisation potential(No./eV)	1/ 9.81
Ionisation potential(No./eV)	5/ 62.6
Ionisation potential(No./eV)	3/ 28.4
Ionisation potential(No./eV)	4/ 50.1
Ionisation potential(No./eV)	6/ 128

Mechanical Properties

Element	Value
Material condition	Polycrystalline
Bulk modulus(GPa)	22
Hardness - Vickers(kgf mm ⁻²)	57-69

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	33.3@20@20°C

Physical Properties

Element	Value
Boiling point(C)	616
Density(gcm^3)	5.73@20°C

Thermal Properties

Element	Value
Melting point(C)	300
Latent heat of fusion(J g^{-1})	370
Specific heat($\text{J K}^{-1} \text{kg}^{-1}$)	328@25°C
Thermal conductivity($\text{W m}^{-1} \text{K}^{-1}$)	50.2@0-100°C
Coefficient of thermal expansion($\times 10^{-6} \text{K}^{-1}$)	5.6@0-100°C