

Calcium Pellets

Formula: Ca

Percentage Purity: 99%

Maximum Lump Size: 10mm

Weight: 50g

CAS Number: 7440-70-2

UOM Code: 046-914-60

SKU: 1000006616-group

Product Code: CA00-LP-000101

Material Properties for Metals

Atomic Properties

Element	Value
Atomic number	20
Crystal structure	Face centred cubic
Electronic structure	Ar 4s ²
Valences shown	2
Atomic weight(amu)	40.08
Thermal neutron absorption cross-section(Barns)	0.44
Photo-electric work function(eV)	2.87
Natural isotope distribution(Mass No./%)	40/ 96.941
Natural isotope distribution(Mass No./%)	43/ 0.135
Natural isotope distribution(Mass No./%)	44/ 2.086
Natural isotope distribution(Mass No./%)	48/ 0.187
Natural isotope distribution(Mass No./%)	42/ 0.647
Natural isotope distribution(Mass No./%)	46/ 0.004
Atomic radius - Goldschmidt(nm)	0.197
Ionisation potential(No./eV)	2/ 11.87
Ionisation potential(No./eV)	6/ 109
Ionisation potential(No./eV)	1/ 6.11
Ionisation potential(No./eV)	4/ 67.1
Ionisation potential(No./eV)	3/ 50.9
Ionisation potential(No./eV)	5/ 84.4

Mechanical Properties

Element	Value
Material condition	Hard
Material condition	Soft
Poisson's ratio	0.31
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Bulk modulus(GPa)	17.2
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Tensile modulus(GPa)	19.6
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Hardness - Vickers(kgf mm ²)	17
Tensile strength(MPa)	55
Tensile strength(MPa)	115
Yield strength(MPa)	14
Yield strength(MPa)	84.5

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	3.7@20@20°C
Temperature coefficient(K ⁻¹)	0.00457@0-100°C
Thermal emf against Pt (cold 0C - hot 100C)(mV)	-0.51

Physical Properties

Element	Value
Boiling point(C)	1484
Density(gcm ³)	1.55@20°C

Thermal Properties

Element	Value
Melting point(C)	839
Latent heat of evaporation(J g ⁻¹)	3760
Latent heat of fusion(J g ⁻¹)	209
Specific heat(J K ⁻¹ kg ⁻¹)	653@25°C
Thermal conductivity(W m ⁻¹ K ⁻¹)	125@0-100°C
Coefficient of thermal expansion($\times 10^{-6}$ K ⁻¹)	22@0-100°C