

Indium Foil (Light Tight)

Formula: In

Percentage Purity: 99.999%

Temper: As Rolled

Thickness: 0.2mm

Length 1: 25mm

Length 2: 25mm

CAS Number: 7440-74-6

UOM Code: 026-393-69

SKU: 1000003131-group

Product Code: IN00-FL-000360

Material Properties for Metals

Atomic Properties

| Element | Value |
|---|---|
| Atomic number | 49 |
| Crystal structure | Face centred tetragonal |
| Electronic structure | Kr 4d ¹⁰ 5s ² 5p ¹ |
| Valences shown | 1, 2, 3 |
| Atomic weight(amu) | 114.82 |
| Thermal neutron absorption cross-section(Barns) | 194 |
| Photo-electric work function(eV) | 4.12 |
| Natural isotope distribution(Mass No./%) | 113/ 4.3 |
| Natural isotope distribution(Mass No./%) | 115/ 95.7 |
| Atomic radius - Goldschmidt(nm) | 0.157 |
| Ionisation potential(No./eV) | 3/ 28.0 |
| Ionisation potential(No./eV) | Apr-54 |
| Ionisation potential(No./eV) | 2/ 18.9 |
| Ionisation potential(No./eV) | 1/ 5.79 |

Mechanical Properties

| Element | Value |
|--------------------|-----------------|
| Material condition | Polycrystalline |
| Material condition | Soft |

| Element | Value |
|---|--------------|
| Poisson's ratio | 0.45 |
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| Bulk modulus(GPa) | 35.3 |
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| Tensile modulus(GPa) | 10.6 |
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| Hardness - Vickers(kgf mm ²) | 10 |
| Tensile strength(MPa) | 2.6-4.5 |

Electrical Properties

| Element | Value |
|---|----------------|
| Electrical resistivity(μOhmcm) | 8.8@20@20°C |
| Superconductivity critical temperature(K) | 3.41 |
| Temperature coefficient(K ⁻¹) | 0.0052@0-100°C |
| Thermal emf against Pt (cold 0C - hot 100C)(mV) | 0.69 |

Physical Properties

| Element | Value |
|-----------------------------|--------------|
| Boiling point(C) | 2080 |
| Density(gcm ³) | 7.3@20°C |

Thermal Properties

| Element | Value |
|--|--------------|
| Melting point(C) | 156.6 |
| Latent heat of evaporation(J g ⁻¹) | 2024 |
| Latent heat of fusion(J g ⁻¹) | 28.5 |
| Specific heat(J K ⁻¹ kg ⁻¹) | 234@25°C |
| Thermal conductivity(W m ⁻¹ K ⁻¹) | 81.8@0-100°C |
| Coefficient of thermal expansion($\times 10^{-6}$ K ⁻¹) | 24.8@0-100°C |