

# Gallium Pellets

**Formula:** Ga

**Percentage Purity:** 99.99%

**Maximum Lump Size:** 25mm

**Weight:** 20g

**Melting Point:** 29.8°C

**CAS Number:** 7440-55-3

**UOM Code:** 046-383-26

**SKU:** 1000006549-group

**Product Code:** GA00-LP-000120

## Material Properties for Metals

### Atomic Properties

Element	Value
Atomic number	31
Crystal structure	Orthorhombic
Electronic structure	Ar 3d <sup>10</sup> 4s <sup>2</sup> 4p <sup>1</sup>
Valences shown	2, 3
Atomic weight( amu )	69.72
Thermal neutron absorption cross-section( Barns )	3.1
Photo-electric work function( eV )	4.2
Natural isotope distribution( Mass No./% )	71/ 40
Natural isotope distribution( Mass No./% )	69/ 60
Atomic radius - Goldschmidt( nm )	0.135
Ionisation potential( No./eV )	4/ 64.0
Ionisation potential( No./eV )	2/ 20.51
Ionisation potential( No./eV )	1/ 5.99
Ionisation potential( No./eV )	3/ 30.71

### Mechanical Properties

Element	Value
Hardness - Mohs	1.5-2.5
Material condition	Polycrystalline
Poisson's ratio	0.47

Element	Value
Tensile modulus( GPa )	9.81

## Electrical Properties

Element	Value
Electrical resistivity( $\mu\text{Ohmcm}$ )	15.5@20@20°C
Superconductivity critical temperature( K )	1.08
Temperature coefficient( $\text{K}^{-1}$ )	0.004@0-100°C

## Physical Properties

Element	Value
Boiling point( C )	2205
Density( $\text{gcm}^{-3}$ )	5.904@20°C

## Thermal Properties

Element	Value
Melting point( C )	29.8
Latent heat of evaporation( $\text{J g}^{-1}$ )	3984
Latent heat of fusion( $\text{J g}^{-1}$ )	80.1
Specific heat( $\text{J K}^{-1} \text{kg}^{-1}$ )	330@25°C
Thermal conductivity( $\text{W m}^{-1} \text{K}^{-1}$ )	33-41@0-100°C
Coefficient of thermal expansion( $\times 10^{-6} \text{K}^{-1}$ )	18.3@0-100°C