NANOSHEL
Creating Miracles in Black

Bismuth
High Purity Metal

Bismuth is a heavy metal and was regarded until recently to be the heaviest stable element. Bismuth is seen as the least toxic heavy metal for humans and is widely used in medical applications for its good antibacterial properties. Bismuth is a chemical element with symbol Bi and atomic number 83. Bismuth has a high electrical resistance and the highest hall effect of any metal (i.e. the greatest increase in electrical resistance when placed in a magnetic field).

Characteristics

- ✓ High electrical resistance
- ✓ Low thermal conductivity
- ✓ Low electric conductivity
- ✓ Low melting point

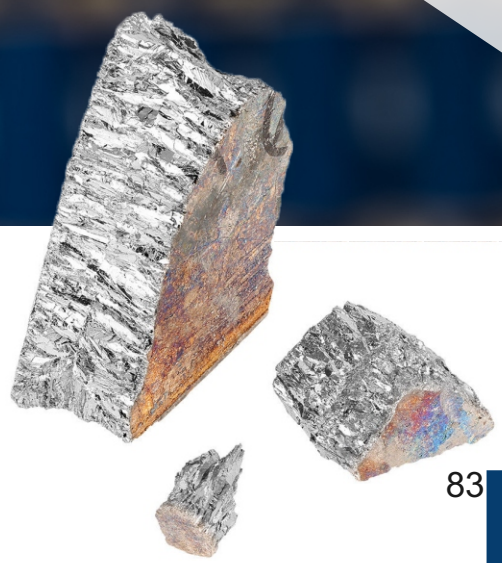
Benefits

- ✓ Used as catalysts in the manufacturing process of synthetic fiber and rubber
- ✓ Used in cosmetic
- ✓ Used in pigment
- ✓ Used in the production of fusible alloys
- ✓ Used as replacement for lead in shot and bullets
- ✓ Used in nuclear reactors
- ✓ Used in small motors

Quick Facts

Molecular Formula	:	Bi
Molecular Weight	:	208.98g/mol
Density	:	2.70g/cm3
Melting Point	:	271.4°C
Boiling Point	:	1564 °C
Thermal Conductivity	:	7.97W/(mK)
Electrical Resistivity	:	106.8μΩcm (at 20 °C)
Thermal Expansion	:	13.8μm/(mK) (at 25 °C)
Young's Modulus	:	32GPa
Specific Heat	:	0.123Cal/g/K @ 25 °C

Purity : 99.99%



High Purity
Bismuth
Available in:

Pieces | Rods | Shots | Chips | Pellets | Wires | Ingots | Bars | Granules

83
Bi
208.980

20ZICE4589C | 19ZAZGO1274G | 20ZICE4588M

ISO 9001:2015
CERTIFIED COMPANY

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