

SULFAMET

ALLENDE 4158 (1419) C.A.B.A.

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TECHNICAL DATA SHEET BISMUTH METAL

Symbol:	Bi
CAS No:	7440-69-9
Atomic Number:	83
Atomic Weight:	208.9804
Density:	9.747 gm/cc
Melting Point:	271.3 oC
Boiling Point:	1560 oC
Thermal Conductivity:	0.0792 W/cm/oK @ 298.2 oK
Electrical Resistivity:	106.8 microhm-cm @ 0 oC
Electronegativity:	1.9 Paulings
Specific Heat:	0.0296 Cal/g/oK @ 25 oC
Heat of Vaporization:	42.7 K-Cal/gm atom at 1560 oC
Heat of Fusion:	2.505 Cal/gm mole

Application:

1. metallurgical additives
2. bismuth based low melting point fusible alloy
3. medical treatment
4. Application of bismuth in flame retardant
5. Application of bismuth in chemical industry
6. Containing bismuth electronic ceramics
7. Using high pure bismuth and tellurium and selenium
8. High-purity 99.995% (99.999%Bi) for heat carrier or coolant

Grade	Chemical composition(%)														
	Bi \geq	Impurity content \leq													
		Cu	Pb	Zn	Fe	Ag	As	Te	Sb	Cl	Sn	Cd	Hg	Ni	Total
Bi99.997	99.997	0.003	0.000 7	0.000 1	0.000 5	0.000 5	0.000 5		0.000 3		0.000 2	0.000 1	0.000 5	0.000 5	0.003
Bi99.99	99.99	0.001	0.001	0.000 5	0.001	0.004	0.000 3	0.000 3	0.000 5	0.001 5					0.010