



Bismuth

Special properties - It has high electrical resistivity and a very low melting point. Brittle metal, rhombohedral crystal structure, non-toxic, strongly diamagnetic. Metallic Bismuth contributes its own special properties of low and expansion on solidification.

Application - Alloy component, mechanical engineering, energy production, catalysts.

Chemical Composition in %

Bi	Fe	Cu	Pb	Zn	Other elements
≥99.98	≤0.001	≤0.0001	≤0.01	≤0.0005	≤0.02

Mechanical Properties 20 °C

Compression-Modul, GPa	20
Shear-Modul, GPa	42
E-Modul, GPa	55

Physical Properties 20 °C

Density, g/cm ³	9.78
Thermal conductivity, W/m K	8
Melting point, °C	271
Boiling point, °C	1564