

Bismuth Oxide Nanoparticle (Bi₂O₃, 99.9%, 80-200 nm)

Stock#: US3028

Please click [here](#) for price information.

Details:

Bismuth oxide (Bi₂O₃, beta)

Purity: 99.9%

APS: 80-200 nm

SSA: 3.8 – 5.5 m²/g

Color: yellow

Morphology: spherical

Bulk density: 0.65 g/cm³

True density: 8.9 g/cm³

Plasma Assisted Vapor Oxidization

Melting point: 820 °C

Molecular weight: 465.96

Specific weight: 8.9

**Above 710 °C, the melting of bismuth oxide can erode or dissolve metal oxides.



Certificate of Analysis-%					
Bi ₂ O ₃	Pb	Fe	Cu	As	Acid-insoluble
≥99.9	≤0.001	≤0.001	≤0.001	≤0.001	≤0.005

[MSDS](#)

Applications:

Above 710 °C, melting bismuth oxide can erode or dissolve metal oxides. The main purpose: the electronics industry; pressure-sensitive resistors; Capacitance of major doping materials; medicine; artificial bone imaging; glass; Bismuth oxide in ceramics can increase the index of refraction of glass and significantly improve the performance of ceramic material. It is the best substitute of "Lead Glaze". Also, Catalysts; Disinfectants; Fireproofing papers and polymers; High nonlinear susceptibility materials; Magnets; Rubber; Solid electrolytes; Substitute for lead oxide in glass or porcelain; Vulcanization ..

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