

Technical Data Sheet



A-708, Hypex, 240 Pangyoyeok-ro, Bundang-gu,
Seongnam-si, Gyeonggi-do, Korea
Phone: 82-70-4010-9233
E-mail: info@naewai.com

Bismuth trioxide

Product Identification

Product name : Bismuth trioxide
Chemical Formula : Bi_2O_3
CAS No. : 1304-76-3

Physical and Chemical Properties

Property	Value / Description
Purity	99.5% min
Physical State	Powder or yellow monoclinic crystals
Color	Yellow
Density	Approx. 8.9 g/cm ³
Melting Point	817 °C
Boiling Point	1890 °C
Solubility in Water	Insoluble
Electrical Properties	High oxygen ion conductivity in some phases
Stability	Stable under normal conditions
Reactivity	Reacts with acids to form bismuth salts

Applications

Fireproofing of papers and polymers, enameling cast iron and ceramics, disinfectants, catalysts, magnets, glass and rubber vulcanization, electronic ceramic powder materials, electrolyte materials, photoelectric materials, high-temperature superconductors

Packing

20kg net in sealed containers

Shipping Regulations

Not subject to transport regulations

Safety Information

Causes damage to organs (nervous system, kidneys, bones).
Causes damage to organs (nervous system, kidneys, bones) through prolonged or repeated exposure.