

Barium

Oxide Powder



APS
40-50µm

NS6130-12-000823



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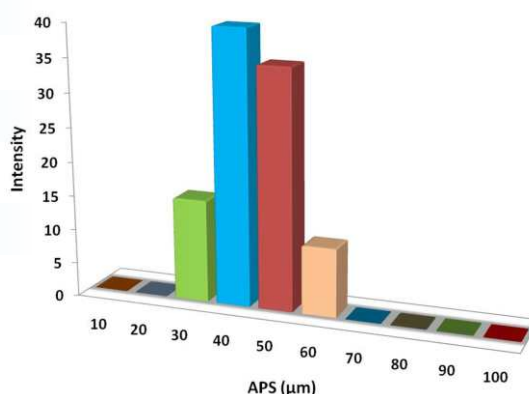
Barium Oxide Powder

Barium oxide is used as a coating for hot cathodes, for example, those in cathode ray tubes. It replaced lead (II) oxide in the production of certain kinds of glass such as optical crown glass. While lead oxide raised the refractive index, it also raised the dispersive power, which barium oxide does not alter. Barium oxide also has use as an ethoxylation catalyst in the reaction of ethylene oxide and alcohols, which takes place between 150 and 200 °C.

It readily oxidizes to BaO₂ by formation of a peroxide ion. The complete peroxidation of BaO to BaO₂ occurs at moderate temperatures but the increased entropy of the O₂ molecule at high temperatures means that BaO₂ decomposes to O₂ and BaO at 1175K.

Quick Facts

Product	:	Barium Oxide Powder
Stock No	:	NS6130-12-000823
CAS	:	1304-28-5
Purity	:	99%
Color	:	White
Form	:	Powder



Technical Specification

Formula	APS	Molecular Weight	Melting Point
BaO	40-50μm	153.32 g/mol	1923 °C

Chemical Composition

Product	Weight Percent (nominal)	
	BaO	Other Metal
Barium Oxide Powder	99%	0.1%

Applications

- Glass
- Catalysts
- Cathode ray tubes

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