

# Lithium Oxide

## Micropowder



NS6130-12-001087

APS  
40-60 $\mu$ m



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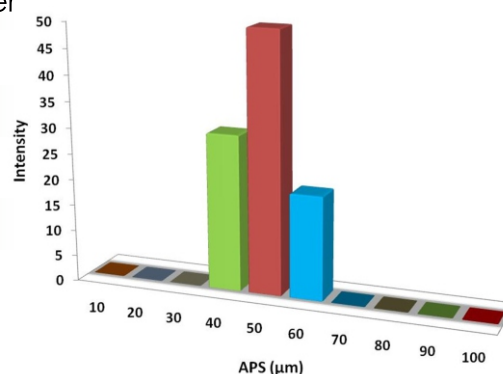
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# Lithium Oxide Micropowder

Lithium oxide (Li<sub>2</sub>O) or lithia is an inorganic chemical compound. use lithium oxide in ceramic glazes as a flux, and for creating blues with copper and pinks with cobalt. Furthermore, it reacts with steam or water, forming lithium hydroxide and should be isolated from them. Inside the thermal barrier coating, its usage is also being investigated for non-destructive emission spectroscopy evaluation and degradation monitoring. Lithium oxide with its high tritium potential is an attractive candidate for the solid culture material of a fusion power plant because of its high lithium atom density (compared to other lithium or lithium metal ceramics) and its conductivity.

## Quick Facts

Product	:	Lithium Oxide Micropowder
Stock No	:	NS6130-12-001087
CAS	:	12057-24-8
Purity	:	99.9%
Color	:	White
Form	:	Powder



## Technical Specification

Formula	APS	Molecular Weight	Melting Point
Li <sub>2</sub> O	40-60μm	29.88 g/mol	1438°C

## Chemical Composition

Product	Weight Percent (nominal)	
	Li <sub>2</sub> O	Other Metal
Lithium Oxide Micropowder	99.9%	0.1%

## Applications

- Lithium-ion batteries
- Non-destructive emission spectroscopy
- As a flux in ceramic glazes
- Used as a flux in ceramic glazes
- Used as a thickening agent in the manufacture of greases
- Used as a coolant in nuclear reactors

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