

Cobalt

Oxide Powder



NS6130-05-507A

APS
40-50 μ m



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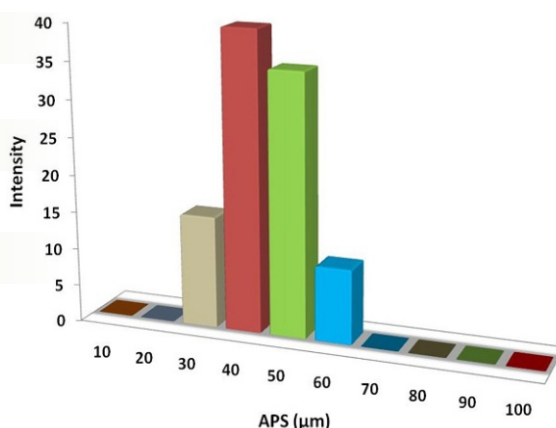
Cobalt Oxide Powder

Cobalt (II, III) oxide is an inorganic compound with the chemical formula Co_3O_4 . It is a black antiferromagnetic solid and commercial ceramic grades of cobalt oxide will often produce glaze specking. Cobalt oxide is typically insoluble in aqueous solutions (water) and extremely stable. Because of its stability, it is useful in ceramic structures such as simple as producing clay bowls to advanced electronics and in lightweight structural components in aerospace and electrochemical applications, for instance, fuel cells in which they manifest ionic conductivity.

This powder is utilized in lithium-ion batteries. It is also applied in glass, ceramics, inks, paints, and varnishes. It is also utilized as electroplating for its attractive appearance. Cobalt Oxide is used in glazes, glass, and enamels and it the most powerful ceramic colorant. Cobalt oxide is employed as an electrode in lithium-ion batteries, in the form of cobalt nanoparticles.

Quick Facts

Product	:	Cobalt Oxide Powder
Stock No	:	NS6130-05-507A
CAS	:	1308-04-9
Purity	:	99%
Color	:	Black
Form	:	Powder



Technical Specification

Formula	APS	Molecular Weight	Melting Point	Boiling Point
Co_2O_3	40-50μm	165.86g/mol	895°C	900 °C

Chemical Composition

Product	Weight Percent (nominal)	
	Co_2O_3	Other Metal
Cobalt Oxide Powder	99%	0.1%

Applications

- Ceramics
- Lithium ion batteries
- Enamels

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