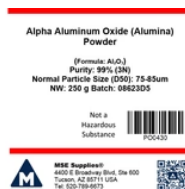


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MSE PRO 1 kg, 75-85 um Alpha Aluminum Oxide (Alumina) Al₂O₃ Powder 99.9% 3N

SKU: PO0430

\$ 129⁹⁵

Quantity

<https://www.mseshplies.com/products/mse-pro-1-kg-75-85-um-alpha-aluminum-oxide-alumina-al-sub-2-sub-o-sub-3-sub-powder-99-9-3n?srltid=Afm...> 1/4

Ningde Amperex Tech. Exhibit No. 2050
Zhuhai CosMX Battery Co. Ltd. v. Ningde Amperex Tech.
IPR2025-00432, U.S. Patent No. 11,575,148

Page 1 of 4

1

Qty (Each)	Price (Each)
1	\$ 129.95
10	\$ 110.95
25	\$ 97.95
100	\$ 77.95

 Add to Cart[Request a Quote](#)**MSE PRO™ 1 kg 99.9% 3N Alpha Aluminum Oxide (Alumina) Al₂O₃ Powder**[SDS](#)

- Product SKU#: PO0430
- Form: white powder
- Formula: Al₂O₃
- Phase: alpha phase
- Density: 3.987 g/cm³
- Melting Point: 2,072 °C
- Nominal Particle Size (D50): 75 - 85 um
- Particle Size Distribution: D10: 45.852 um; D50: 83.151 um; D90: 137.06 um
- Alpha Phase: 96%
- Specific Surface Area (SSA): 1.12 m²/g (BET)
- CAS Number: 1344-28-1
- EC Number: 215-691-6
- Molecular Weight: 101.96 g/mol

Chemical Data

Impurity	Value (%)
Fe	<0.005
Na	<0.1
Ca	<0.005
Si	<0.007
Mg	<0.003
H ₂ O	<0.02

Product features of alpha-phase 99.9% 3N Al₂O₃ powder

Stable phase, high hardness, materials with high dimensional stability, it is widely used in a variety of plastics, rubber, ceramics, refractory products for reinforcement toughening, in particular, significantly to improve the ceramic density, finish, thermal fatigue resistance, fracture toughness, creep resistance and wear resistance. As the α-phase Al₂O₃ is a high performance material of far infrared emission, it is widely used to produce artificial ruby, sapphire, yttrium aluminum garnet and also used in the field of fiber fabric products and high pressure sodium lamp as far-infrared emission and thermal insulation materials. In addition, α-phase nano-Al₂O₃ with high resistivity and good insulation property, it is widely used as the main components for YAG laser crystal and integrated circuit substrates.

Alumina Powder Applications

1. Transparent ceramics: high-pressure sodium lamps, EP-ROM window
2. Cosmetic filler
3. Single crystal, ruby, sapphire, sapphire, yttrium aluminum garnet
4. High-strength aluminum oxide ceramic, C substrate, packaging materials, cutting tools, high purity crucible, winding axle, bombarding the target, furnace tubes
5. Polishing materials, glass products, metal products, semiconductor materials, plastic, tape, grinding belt
6. Paint, rubber, plastic wear-resistant reinforcement, advanced waterproof material
7. Vapor deposition materials, fluorescent materials, special glass, composite materials and resins
8. Catalyst, catalyst carrier, analytical reagent
9. Aerospace aircraft wing leading edge

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(v/v) Electrolyte Solvent
for Lithium/Sodium-ion
Battery Research, 1kg

\$1,544.95

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MSE PRO 1kg 1M
LiPF₆ in
EC/DMC/DME=5:5:3
(v/v/v) Electrolyte
Solution for Lithium-ion
Battery R&D, 1 kg

\$1,847.95

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MSE PRO Sodium
Battery Electrolyte 1.0M
NaPF₆ in
EC:DMC=3:7 Vol% with
5.0%FEC

\$989.95

500g

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MSE PRO 1M
LiPF₆ in
EC/DMC/DEC=1:1:1
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Battery R&D, 1 kg

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