

**ALPHA ENVIRONMENTAL****PRODUCT DATA SHEET**  
PRODUCT CODE: Nano Al<sub>2</sub>O<sub>3</sub>**ALUMINUM OXIDE (NANO POWDER)**  
**HIGH PURITY**CAS No. EINEC No. HS Code  
1344-28-1**PHYSICAL DATA**

Chemical Formula	Al <sub>2</sub> O <sub>3</sub>
Appearance	White Powder
Molecular Weight	101.96
Average Particle Size	20 - 80 nM (nanometer)
Specific Surface Area	50 - 100 m <sup>2</sup> /g
Bulk Density	0.30 g/cc

**CHEMICAL SPECIFICATIONS (Typical Values)**

Purity	99% min
Sodium (Na)	0.03% max
Calcium (Ca)	2 ppm max
Iron (Fe)	2 ppm max
Silicon (Si)	5 ppm max
Volatile materials	NIL

**PACKING**

1) 10 kg (22 lb) in double poly-lined fiber board drums (on pallets).

**USES**

Filler in cosmetics, such as foundations, face powders, lipsticks and other skin care products  
Coatings where transparency, gloss and abrasion resistance are important  
UV filter coatings  
Transparent Ceramics (e.g. high pressure sodium lamp tubes)  
High strength alumina ceramics. Catalyst and catalyst carrier  
Precision polishing & lapping materials

*The information provided herein is believed to be reliable, however, no guarantees are made or liability assumed.*

**ALPHA ENVIRONMENTAL**  
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