

HIFULL ALUNA-100HF

Nano Aluminium Oxide

ALuna-100HF is fine-particulate, fumed aluminum oxide (Al_2O_3) powder with high purity. The iron content in ALuna-100HF is low due to upgraded manufacturing process. It's applied in Li-ion battery separator to improve thermal stability and battery safety, and reduce the harm of Iron ion. ALuna-100HF is with positive surface charge, it can be used in many applications.

01 Applications

- Applied in ceramic coating for separators in Li-ion batteries to increase thermal stability & safety
- Improve charge and discharge property and service life when applied in anode of Li-battery
- Enhance charge adsorption of melt-blown electret masterbatch
- Applied in fluorescent coating powders in the lighting industry to uniform light output, reduce light attenuation and UV harm
- Applied in different types of thermal board
- Improve charge ability & flowability for powder coatings & printing ink

02 Properties

- High specific surface area and high purity
- Low bulk density
- Ultra fine particle size & good dispersion
- Positive surface charge
- Low iron ion content

03 Physical & Chemical Data

Properties	Unit	Typical Value	Testing Standard
Specific Surface Area (BET)	m^2/g	90 ± 10	GB/T 26824
pH in 4% dispersion	—	3.9~5.0	GB/T 26824
Loss on drying(2 hours at 300°C)	%	≤ 5.0	GB/T 26824
Loss on ignition (2 hours at 1000°C)	%	≤ 2.0	GB/T 26824
Al_2O_3 Content (based on ignited material)	%	≥ 98	GB/T 26824
Tamped Density	g/L	60 ± 15	GB/T 26824
Crystal Structure	—	Mixed crystal structure	GB/T 26824

* customized products available for special physical or chemical data