

# 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)	$m^2/g$	$90 \pm 10$	GB/T 26824
pH in 4% dispersion	—	3.9~5.0	GB/T 26824
Loss on drying( 2 hours at 300°C)	%	$\leq 5.0$	GB/T 26824
Loss on ignition (2 hours at 1000°C)	%	$\leq 2.0$	GB/T 26824
$Al_2O_3$ Content (based on ignited material)	%	$\geq 98$	GB/T 26824
Tamped Density	$g/L$	$60 \pm 15$	GB/T 26824
Crystal Structure	—	Mixed crystal structure	GB/T 26824

※ customized products available for special physical or chemical data