

## HIFULL ALUNA-100

# Nano Aluminium Oxide

ALuna-100 are fine-particulate fumed aluminium oxide (AL<sub>2</sub>O<sub>3</sub>) powder with high specific surface area. The positive surface charge of fumed alumina enables it can be used in many applications with special properties and functions.

## 01 Applications

- Ceramic coating for separators in lithium batteries to increase thermal stability & safety; Improve conductivity & reversible capacitance when applied in anode of Li-battery;
- Improve chargeability & flow ability for powder coatings & printing ink;
- Applied in different types of thermal board
- Enhance charge adsorption of melt-blown electret masterbatch;
- Applied in fluorescent coating powders in lighting industry to uniform light output, reduce light attenuation and UV harms;
- Super fine powder enables to improve gloss & ink absorption of papers

## 02 Properties

- High specific surface area and high purity
- Low bulk density
- super fine particle size & good dispersion performance
- Positive surface charge

## 03 Physical & Chemical Data

Properties	Unit	Typical Value	Testing Standard
Specific Surface Area (BET)	m <sup>2</sup> /g	100±15	GB/T 26824
pH in 4% dispersion	—	≥3.9	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 <sub>2</sub> O <sub>3</sub> 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