

HIFULL ALUNA-100

Nano Aluminium Oxide

ALuna-100 are fine-particulate fumed aluminium oxide (Al_2O_3) 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^2/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_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