

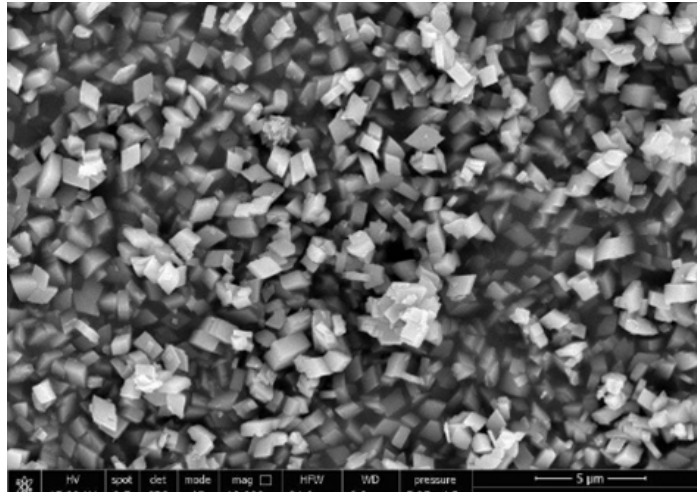
TECHNICAL DATA SHEET

Preliminary Specification



ALUPREM® TB Alumina Monohydrate (Boehmite)

Specially designed boehmite for coating of lithium battery separators (LIBS) for fire safety



Scanning Electron Microscope (SEM) picture of ALUPREM TB-1.0/XU boehmite

	TB-0.4/X	TB-0.7/X	TB-1.0/XU	TB-1.5/XU
CHEMICAL ANALYSIS (Typical)				
AlO(OH) content, %	99.9	99.9	99.9	99.9
Na ₂ O, total %	0.05	0.05	0.05	0.05
CaO, %	0.02	0.02	0.02	0.02
Fe ₂ O ₃ , %	0.010	0.010	0.010	0.010
Moisture Content (105° C), %	0.6	0.3	0.2	0.2
Loss on Ignition (LOI) (1200° C), %	17	17	17	17
PHYSICAL ANALYSIS (Typical)				
Particle Size (laser, Sympatec) – d ₁₀ , (µm)	0.2	0.3	0.6	0.7
– d ₅₀ , (µm)	0.4	0.7	1.0	1.5
– d ₉₀ , (µm)	1.0	1.5	2.5	3.5
Specific Density, (g/cm ³)	3	3	3	3
Bulk Density, (kg/m ³)	450	450	500	550
Surface area, BET (m ² /g)	25	6	5	4
+ 45 µm, %	< 0,01	< 0,01	< 0,01	< 0,01

The information herein is believed to be correct and reliable; however, no warranty is given concerning the accuracy of these data, merchantability or fitness for a particular use.

ALUPREM[®] TB Boehmite



Grid Energy Storage



Electric Vehicles

Performance Benefits:

- ✓ High temperature stability/low shrinkage
- ✓ Excellent dispersion and stability
- ✓ Low surface area/moisture
- ✓ 25% lower density than Al₂O₃
- ✓ High thermal conductivity
- ✓ Low impurities
- ✓ Low Mohs hardness
- ✓ Good acid resistance

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