



Product Name: Coated Fine Aluminum Hydroxide

Product Type: PF-1S

Product Properties:

PF-1S, surface Coated Fine Aluminum Hydroxide powder and the first of its kind in China, is a highly advanced product manufactured by the latest surface modifying technology. The patent solely developed and owned by Pengfeng.

The invention patent code is ZL 2015 1 0339865.5 in China. This technology enables Aluminum Hydroxide particles with high absorbability to reach their potential and generate optimized results in the process of surface modification. Therefore, it fundamentally resolves the problems of ultrafine particle's ions aggregation, inadequacy of the surface modification and maldistribution of ions or particles. The Coated fine aluminum hydroxide powder (when it applied in Aerospace, submarine cable, weather resistant cable products) has the following advantages over those surface unprocessed products:

- Improve uniformity
- Reduce processing energy
- Provide hydrophobicity
- Increase dynamic stability
- Enhance physical properties
- Reinforce flame retardancy

Typical Analysis:

Al(OH) ₃ -content	[%]	≥99.6
SiO ₂	[%]	≤0.02
Fe ₂ O ₃	[%]	≤0.02
Na ₂ O(total)	[%]	≤0.30
Loss on ignition	[%]	34.5±0.5
Free Moisture	[%]	≤0.30
Particle size(Laser diffraction)	D ₅₀ (μm)	1.0-2.0
Bulk Density	kg/m ³	300-350
Oil Absorption	ml/100g	≤38
Whiteness(Elrepho 457nm)	[%]	≥97
Electrical conductivity	μs/cm	≤60
Refractive index		1.58
Mohs hardness		3

Applications:

- Wire and Cable
- Thermoplastic Material
- Coating, industrial paper
- Rubber Application
- Thermosetting Material
- Other area

Disclaimer: Information presented here is believed to be accurate and reliable but is not intended to meet any specification and does not imply any guarantee or warranty. All data listed here are reference values and subject to production tolerances. These values are only for the product description and no guarantee is placed on the properties. It remains the responsibility of the users to test the suitability of the product for their application.

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