

APP103 Epoxy resin cladding ammonium polyphosphate(crystal II , n>1000)

Specification:

Appearance	—	White free-flowing powder
Whiteness (Reflectance)	—	≥ 92.0
pH value, 10% suspension, 25 °C	—	6.0 - 7.5
Solubility in Water, 25 °C, g/100mLH ₂ O	%(w/w)	≤ 0.04
Nitrogen	%(w/w)	16.0-18.0
Phosphorus	%(w/w)	28.0-30.0
Viscosity,10% suspension, 25 °C	mpa.s	≤ 20.0
Degree of polymerization	—	>1000
Average Particle Size (D50)	μm	approx. 15
Particle Size Distribution	%(w/w)	
	> 45 μm	≤1.0
	> 74 μm	≤ 0.2

Key properties:

-APP 103 is a product based on ammonium polyphosphate. It is manufactured from -APP 101 by microencapsulation with epoxy resin according to our own method.

Characteristic of -APP103:

- 1,Reduce water solubility;
- 2,Reduce air hygroscopicity;
- 3,Reduce viscosity in water;
- 4,Obviously improve dispersibility and compatibility with plastic materials;
- 5,Increase fluidity of powder;
- 6,Improve thermal expansion efficiency during inflaming retarding process.

Applications:

-APP103 is an effective fire retardant for applications such as:

- 1,Various kinds of expanding fire-refractory coating;

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2,Thermal plasticity polyolefin and unsaturated arene plastic;

3,Isocyanurate foam;

4,Epoxy resin and unsaturated resin;

5,Cable and rubber;

6,Plastic material of electron device.

Package:

25 kg net bag with PE liner or 500 kg, 600kg net big bag or on customer's request.

Storage and Handling:

Store in a dry and cool area.

Avoid inhalation, ingestion, and contact with eyes and skin.

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