

APP102 Melamine cladding ammonium polyphosphate(crystal II , n>1000)

Specification:

Appearance	—	White free-flowing powder
Whiteness (Reflectance)	—	≥ 92.0
pH value, 10% suspension, 25 °C	—	7.5 – 9.0
Solubility in Water, 25 °C, g/100mLH ₂ O	%(w/w)	≤ 0.05
Nitrogen	%(w/w)	18.0-20.0
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

APP102 equivalent to Clariant GmbH's Exolit AP 462

Key properties:

APP 102 is a product based on ammonium polyphosphate. It is manufactured from APP 101 by microencapsulation with melamine resin according to our own method.

1,Very low water solubility - APP102 has low water solubility that is no more than 0.10g/100mLH₂O at 20 degrees C, which makes it useful in application where the product is exposed to high humidity conditions or water.

2,High phosphorus content and nitrogen content- -APP102 contains 68.0% phosphorus (as P₂O₅) and 18.0%nitrogen which makes it a very effective fire retardant.

3,Low viscosity - viscosity of -APP102 is below 20mpa.s.

4,Thermal decomposition onset that is above 295 degrees C, which makes it be widely used to plastic with different melt-point temperature.

5,Non-halogen- -APP102 is a highly effective non-halogen fire retardant.

Applications:

1, -APP102 can be used advantageously in intumescent coating for exterior application where the ammonium polyphosphate is required to have extremely low water solubility

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2, -APP102 can be used in cellulose-containing materials (paper, wood, car's fireproof cloth, military cellulose materials).

3, -APP102 can be used in various polymers for exterior application.

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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