

**APP101 Crystalline II ammonium polyphosphate
with high polymerization degree (crystal II , n>1000)**

Specification:

Appearance	—	White free-flowing powder
Whiteness (Reflectance)	—	≥ 92.0
pH value, 10% suspension, 25 °C	—	5.5 - 7.0
Acid number, mgKOH/g	—	≤ 1.0
Solubility in Water, 25 °C, g/100mLH ₂ O	%(w/w)	≤ 0.5
Nitrogen	%(w/w)	14.0-15.0
Phosphorus (as P ₂ O ₅)	%(w/w)	72.0-74.0
Density	g/cm ³	approx. 1.9
Bulk density	g/cm ³	approx. 0.7
Viscosity, 10% suspension, 25 °C	mPa.s	≤ 80, or on customer's request
Degree of polymerization	—	> 1000
	%(w/w)	
Weight Loss	350°C	approx. 5
	450°C	approx. 10
	550°C	approx. 20
Average Particle Size (D ₅₀)	μm	approx. 15, or on customer's request
Particle Size Distribution	%(w/w)	
	< 45 μm	≥ 98.0
	> 100 μm	≤ 0.2

APP101 equivalent to Clariant GmbH's Exolit AP 422, 423 and Budenheim FR Cros 484

Key properties:

APP101 is a fine-particle ammonium polyphosphate produced by a special method. The product is largely insoluble in water and completely insoluble in organic solvent. It is white, non-hygroscopic and non-flammable, whose crystalline form is II, n>1000.

1, Low water solubility APP101 has low water solubility which makes it useful in application where the product is exposed to high humidity conditions or water.

2, High phosphorus content APP101 contains 72.5% phosphorus (as P₂O₅) which makes it a very effective fire retardant.

3, Nearly neutral PH-APP101 can be neutralized or brought to the alkaline side by the addition of small amounts of ammonium hydroxide.

上海办 Shanghai Office

上海市浦东新区牡丹路 89 弄 4 号 602 室
R602, 4#, 89 Nong, Mudan Road Pudong
Shanghai, China
Tel: 0086 21 6845 1592
Fax: 0086 21 6845 0923

...www.mintchem.com...

长沙办 Changsha Office

长沙市劳动西路 108 号长沙市化工研究所 HX 楼 707 室
HX707, 108# Laodong Road West Changsha,
Hunan, China
Tel: 0086 731 85518147 8551 8261
Fax: 0086 731 5518 167/ 5530 767

4,Non-halogen APP101 is a highly effective non-halogen fire retardant.

Applications:

- 1, Solvent based intumescent coatings.
- 2, Water based intumescent coatings.
- 3, Flame retardant for flexible and rigid urethane foams.
- 4, Flame retardant for unsaturated polyesters.
- 5, Flame retardant for epoxies.
- 6, Flame retardant for acrylics.
- 7, Flame retardant for polyurethanes.

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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