



Shifang Changfeng Chemical Co., Ltd.

Ammonium Polyphosphate (Phase II)

(KYLIN APP201)

Molecular formula: $(\text{NH}_4\text{PO}_3)_n$ $n > 1000$

CAS No.: 68333-79-9

EINECS No.: 269-789-9

Model No.: KYLIN APP201

Ammonium Polyphosphate (Phase II) is a non-halogen flame retardant. It acts as flame retardant by intumescence mechanism. When APP-II is exposed to fire or heat, it decomposes to polymeric phosphate acid and ammonia. The polyphosphoric acid reacts with hydroxyl groups to form a nonstable phosphateester. Following dehydration of the phosphateester, a carbon foam is built up on the surface and acts as an insulation layer.

Specification:

Specification		Value
Appearance		White powder
P content	wt%	≥ 31
N content	wt%	≥ 14
Average polymerization degree	n	≥ 1000
Viscosity mPa.s	(10% aqueous suspension, 25°C)	≤ 50
pH value	(10% aqueous suspension)	5.5-7.5
Particle size(<45 μm)	wt%	≥ 99
Average particle size	μm	15-20
Moisture content	wt%	≤ 0.25
Solubility in water	g/100ml, 25°C	≤ 0.5
Decomposition Temperature	°C	≥ 270

Use:

In plastics (PP, PVC, PE, etc.), Polyester, Rubber, and Expandable fireproof coatings.

Packing: 25kg woven bag with plastic inner.