

FCI FLAME RETARDANTS

34 Glen Lake Drive, Medford, NJ 08055

TECHNICAL DATA SHEET

Ammonium Polyphosphate (APP-HP)

CAS No. : 68333-79-9
Chemical Formula: $(\text{NH}_4\text{PO}_3)_n$, ($n > 2000$)
Appearance: White, free-flowing powder

SPECIFICATIONS		
Content of Phosphorous	%(w/w)	≥31.0 – 32.0
Content of Nitrogen	%(w/w)	≥14.0 – 15.0
pH value (10% suspension)		6.0-8.0
Water content	%(w/w)	≤0.23(w/w)
Thermal decomposition (1%)	°C	≥310
Density	25°C kg/m ³	About 1.9
Apparent Density	25°C kg/m ³	About 0.7
Viscosity	MPa. s	S100
Solubility (g/100cm ³ water 20°C)	g/100cm ³ water	0.35g
Average Particle Size	µm	20

Applications

APP is a halogen-free, environmentally friendly flame retardant. It is non-toxic, non-corrosive and non-volatile. It does not put out gas or black fume when it is fired, and it can meet the EU standard.

Safety and Toxicity

Acute oral toxicity, LD₅₀ (rat): 2000mg/kg LD50

Storage: Dry, at room temperature

Packing

25kg / bag, woven bag lined with PE.