

## FCI FLAME RETARDANTS

34 Glen Lake Drive, Medford, NJ 08055

### TECHNICAL DATA SHEET

#### Ammonium Polyphosphate (APP-I)

CAS No. : 68333-79-9  
Chemical Formula:  $(\text{NH}_4\text{PO}_3)_n$ ,  $(n>30)$   
Appearance: White, free-flowing powder

SPECIFICATIONS		
Content of Phosphorous	%(w/w)	≥31
Content of Nitrogen	%(w/w)	≥14
pH value (10% suspension)		5.5-7.5
Water content	%(w/w)	≤0.5
Thermal decomposition (1%)	°C	≥275
Density	25°C kg/m <sup>3</sup>	About 1.9
Apparent Density	25°C kg/m <sup>3</sup>	About 0.7
Viscosity	mPa. s	S100
Solubility (g/100cm <sup>3</sup> water 20°C)	g/100cm <sup>3</sup> water	4.0
Average Particle Size	µm	18

#### 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, LD<sub>50</sub> (rat): 2000mg/kg LD50

Storage: Dry, at room temperature

#### Packing

25kg / bag, woven bag lined with PE.