

## FCI FLAME RETARDANTS

34 Glen Lake Drive, Medford, NJ 08055

### TECHNICAL DATA SHEET APP – M (Ammonium Polyphosphate Melamine Coated)

Product: Ammonium Polyphosphate (coated with melamine)

CAS No. : 68333-79-9

Chemical Formula:  $(\text{NH}_4\text{PO}_3)_n$ , ( $n > 1000$ )

Appearance: White, free-flowing powder

SPECIFICATIONS	UNIT	STANDARD
Phosphorus	% (w/w)	≥31
Nitrogen	% (w/w)	≥14
PH-value (10% suspension)		8-9
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 (25°C, 10% suspension)	MPa. s	≤50
Solubility	g/100cm <sup>3</sup> water	≤0.3
Average Particle Size	µm	15

#### Application

APP-4 is a halogen-free, environmentally friendly fire retardant. It is non-toxic, non-corrosive, and in volatile. It does not put out gas or black fume when 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 temp.

#### Packing

25kg/bag, woven bag lined with PE bag