

## FCI FLAME RETARDANTS

34 Glen Lake Drive, Medford, NJ 08055

### TECHNICAL DATA SHEET APP E-S (APP coated with 5% Epoxy)

CAS No. : 68333-79-9  
Chemical Formula :  $(\text{NH}_4\text{PO}_3)_n$ , ( $n > 1000$ )  
Appearance : White, free-flowing powder  
Equivalent to : Cros 486 and Exflam204

SPECIFICATIONS	UNIT	STANDARD
Phosphorus	% (w/w)	$\geq 29$
Nitrogen	% (w/w)	$\geq 13$
PH-value (10% suspension)		6.0-7.5
Water Content	%(w/w)	$\leq 0.25$
Thermal Decomposition (1%)	$^{\circ}\text{C}$	$\geq 280$
Density	$25^{\circ}\text{C kg/m}^3$	About 1.9
Apparent density	$25^{\circ}\text{C kg/m}^3$	About 0.7
Viscosity ( $25^{\circ}\text{C}$ , 10% suspension)	MPa. s	$\leq 50$
Solubility	$\text{g}/100\text{cm}^3$	$\leq 0.2$
Average Particle Size	$\mu\text{m}$	20

#### Application

APP-6 is halogen-free, environment friendly fire retardant. It is non-toxic, non-corrosive and in volatile. It does not put out gas or black fume during it is fired, and it can meet the EU standard.

#### Safety and toxicity

Acute oral toxicity  $\text{LD}_{50}$  (rat):  $\geq 2000$  mg/kg  $\text{LD}_{50}$   
Storage: Dry, at room temp.

#### Packing

25kg/bag, woven bag lined with PE bag