

## FLAME RETARDANTS

### ALUMINIUM TRIHYDRATE

Aluminium Trihydrate (ATH) is a flame retardant and smoke suppressant & an economical resin extender.

### CHARACTERISTICS & USAGES

ATH is the most popular low smoke, non toxic additive, it is a common replacement for antimony based complex additives in vinyl applications, it is also recommended for polyurethanes, latex, neoprene foam systems, Rubbers, Wire & Cable insulations, vinyl walls & flooring coverings and Epoxies etc.

Aluminium Trihydrate acts as a flame retardant and smoke suppressant. Its thermodynamic properties, endothermic dehydration cools the plastic & rubber parts and dilutes the combustible gases with water vapours that is generated in case of fire.



FR Cables



FR Cable Compounds

### QUALITY SPECIFICATIONS

S.No	Test Items	Unit	Specifications		
			ATH -100	ATH-050	ATH-020
1	Al(OH) <sub>3</sub>	%	99.6(min)	99.6(min)	99.6(min)
2	Average particle size	M	10±1	5±1	2±0.5
3	Al <sub>2</sub> O <sub>3</sub>	%	65 (min)	65 (min)	65 (min)
4	Loss on Ignition	%	34.5	34.5	34.5
5	Fe <sub>2</sub> O <sub>3</sub>	%	0.01(max)	0.01(max)	0.01(max)
6	SiO <sub>2</sub>	%	0.01(max)	0.01(max)	0.01(max)
7	Na <sub>2</sub> O	%	0.20(max)	0.20(max)	0.20(max)
8	TiO <sub>2</sub>	%	0.001(max)	0.001(max)	0.001(max)
9	Sp. Gravity	g/cc	2.4	2.4	2.4
10	Moisture Contents	%	0.30(max)	0.30(max)	0.30(max)

Note: Coated grades are also available upon specific requirements.

## APPLICATION AREAS

- FR Cable Compounds
- FRLS Cable Compounds
- ZHFR Cable Compounds
- FR/FRLS/PP/EVA/LDPE/ABS/PE Compounds
- PVC Floorings
- Speciality Rubbers (EPDM, Nitrile, PVC-NBR etc.)
- Conveyor Belts
- SMC/ DMC/ BMC
- Fiber Reinforced Plastics (FRP)
- Rubber Hoses
- Unsaturated Polyester Resins (UPR)
- Paints & Coatings etc.



Conveyor Belts



Rubber Hoses

## PACKAGING

- Standard Packaging: PP woven bag net weight 25Kgs.
- Specific Packaging options can be arranged as per customer's requirement.

## STORAGE & TRANSPORTATION

- Keep in dry and ventilating place, avoid moisture.



PVC Profiles

**Vikas Global  ne Ltd.**

Manufacturers of Speciality Additives for Polymers & Rubbers

Corporate Office: 34/1, Vikas House, East Punjabi Bagh, New Delhi-110026, India

Phone: +91-11-4314 4444 (25 Lines) Fax: +91-11-43144488

Website: [www.vikasglobal.com](http://www.vikasglobal.com)