



VIKAS ecOTECH LTD.

(Formerly Vikas GlobalOne Ltd.)

Manufacturers of Speciality Additives for Polymers & Rubbers
www.vikasecotech.com

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 pvc, 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 Cables Compounds

QUALITY SPECIFICATIONS

S.No.	Test Items	Unit	Specifications		
			ATH-100	ATH-050	ATH-020
1	$\text{Al}(\text{OH})_3$	%	99.6 (min)	99.6(min)	99.6(min)
2.	Average particle size	μm	10 ± 1	5 ± 1	2 ± 0.5
3.	Al_2O_3	%	65 (min)	65 (min)	65 (min)
4.	Loss on Ignition	%	34.5	34.5	34.5
5.	Fe_2O_3	%	0.01 (max)	0.01 (max)	0.01 (max)
6.	SiO_2	%	0.01 (max)	0.01 (max)	0.01 (max)
7	Na_2O	%	0.01 (max)	0.01 (max)	0.01 (max)
8	TiO_2	%	0.001(max)	0.001 (max)	0.001(max)
9.	SP. Gravity	g/cc	2.4	2.4	2.4
10.	Moisture Contents	%	0.50 (max)	0.50 (max)	0.50 (max)

Note : Coated grades are also available upon specific requirements.

APPLICATION AREAS

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



Conveyer Belts



Rubber Hoses



PVC Profiles

PACKAGING

- Standard Packaging : PP Woven Bag Net weight 25 Kgs.
- Specific Packaging options can be arranged as per customer's requirements.

STORAGE & TRANSPORTATION

- Keep in dry and ventilating place, avoid moisture.