



Technical Data Sheet

ProFlame ATH-1

Product Name: Aluminum Hydroxide

CAS No. :21645-51-2

EINECS No.:244-492-7

ATH is one halogen free flame retardant, and have high thermal stability. is one white powder without smell; it is neutral substance that can react with acid and alkali both. ATH-1 grade is widely used as fire retardant in plastic and rubber industry.

Fire Retardant

ATH-1 is one inorganic fire retardant whit low cost. It has not only property as fire retardant, but good performance to reduce smoke and toxic gas, anti-drop etc, so ATH become the most widely used fire retardant in plastic and rubber, such as polyesters, acrylics, ethylene vinyl acetate, epoxies, PVC and rubber. Normally, ATH-1 additive amount is very high that is up to 30-60phr; it is easy to influence the mechanical properties of the material, so its quantity should be controlled. When AL(OH) 3 is composited with other types of fire retardants, such as Zinc Borate, Phosphorus, PBDEs, synergism is very good that can improve the performance considerably. ATH-1 grade can be surface treated by non-polar polymer of Stearic acid or Silicon Oil, the compatibility and combination with plastic material will be improved so that it is easy to evenly distribute into material, then the performance of fire retardant and mechanical properties is better than normal grade.

Technical Specification

Physical and Chemical Properties		
		ATH-1
Chemical constituent	Al(OH) ₃ , %	≥99.7
	SiO ₂ , %	≤0.02
	Fe ₂ O ₃ , %	≤0.01
	Na ₂ O, %	≤0.30
	Na ₂ O, Soluble, %	≤0.04
	LOI, %	≥34.5
	Surface water, %	≤0.35
Average particle, D50 um		0.8-1.4
+325 mesh, %		≤0.10
Whiteness		≥97
Oil absorption ml/100g (DOP)		≤45
Conductivity, μ S/cm		≤120

Package and Storage:

Standard package is 25kg/bag, 500kg/bag, 1000kg/bag. And we can design package according to order. Stored in cool, dry and well ventilated environment. Packed and transported as normal chemical goods.

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precautions which are necessary or prudent to instruct employees and to develop work practice procedures in order to promote a safe work environment. Further, nothing contained herein shall be taken as an inducement or recommendation to manufacture or use any of the herein materials or processes in violation of existing or future patent.