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FARETARTM APP

Ammonium Polyphosphate (APP)

Product description

FARETARTM APP is a halogen-free flame retardant polymerized with ammonium phosphate. FARETARTM APP is divided into two grades, APP101 with good moisture resistance and APP102 with excellent weather resistance.

Molecular Structure	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
Chemical Name	Ammonium Polyphosphate	
Formula	(NH ₄ PO ₃) _n	
CAS Number	14728-39-3	
Appearance	White powder	

Comparable grade

Exolit AP422/AP423

Characteristics

FARETARTM **APP101** has strong moisture resistance, alkaline pH value and low water solubility after surface treatment.

FARETARTM **APP102** has excellent weathering properties and high stability. It can improve the water resistance of products in the coating.

Application

FARETARTM**APP** can be used for foaming fireproof materials, such as polyurethane, UF resin, epoxy resin, fibers, wood and plastics etc.

FARETARTM **APP** is the main composition of intumescent flame retardant (IFR). And the PP products added with IFR can achieve UL94-V0.

Specification

Item	FARETAR TM APP101	FARETAR TM APP102
P content, %	28 - 30	31 - 32
Water solubility 25 °C, g/100 cm3	≤ 0.20	≤ 0.20
pH Value	7.0-9.0	5.5 - 7.5
Particle size, µm	≤ 25	≤25
Thermal decomposition, °C	≥ 290	≥ 290
Viscosity, mPa.s	≤ 20	≤ 50
Treatment	Coated with Melamine	

*Test method: Q/0783FRT 009-2019

Packaging

25 kg woven bags

Storage

Store the product in a cool, dry, well - ventilated area