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# AMMONIUM POLYPHOSPHATE (water-soluble APP 201)

#### Halogen free retardants for polymers

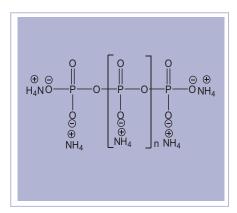
### **PRODUCT BRIEF**

Ammonium polyphosphate is a halogen free retardant. It is an inorganic polymer that has a low polymerization degree (n 100), polyphosphoric acid and ammonia compound. It is a white, watersoluble powder. Due to decomposition point of 150 °C, its use in polymers is limited. Ammonium polyphosphate-I is used in waterbased paints, in paper, fabric and wood impregnation.

#### **APPLICATIONS**

When APP-I is heated, phosphoric acid, which serves as a catalyst of carbonization and foaming, evolves. It allows the product to be used in the production of fire retardants and for wood, plywood, fiberboard, paper, fiber fire-proofing.

#### Structural formula



Molecular formula: (NH₄PO₃),, n 100

### DOSAGE

- in water-based paints up to 30% of total mass

- in adhesives up to 20% of adhesive total mass

# **SPECIFICATIONS**

Particle size, µm	up to 40
Filtrate's pH, 10% of suspension	5,0-7,0
Decomposition point, °C	≤ <b>150</b>
Water solubility at 20 °C, g/100ml	≤ <b>45</b>
P content, %	20-25

# CHEMICAL SAFETY DATA SHEET

According to GOST 12.1.007 the product is a low hazardous substance (4<sup>th</sup> category). May be harmful if swallowed.