

HOFNIL-FR A2M (Melamine coated Ammonium Polyphosphate II)

HOFNIL-FR A2M is a widely used flame retardant known for its effectiveness and versatility across a range of applications. Melamine Coated Ammonium Polyphosphate combines ammonium polyphosphate with a melamine coating. This coating enhances the thermal stability, water resistance, and overall performance of the flame retardant in various applications. It features extremely low water solubility, is completely insoluble in organic solvents, non-hygroscopic, non-flammable, and has improved powder flowability.

PRODUCT PROPERTIES

Product Name: HOFNIL-FR A2M

Product Code: FR A2M

TECHNICAL PARAMETERS		
S. NO.	PARAMETERS	SPECIFICATION
1.	Appearance	White free-flowing powder
2.	pH (10% Aq. Solution)	6.5-8.5
3.	Acid Value, KOH mg/1g	1.0 Max
4.	Solubility in water (25°C), g/100ml H ₂ O	0.50 Max
5.	Nitrogen, w/w%	15.0-17.0
6.	Phosphorus (P), w/w%	31.0-32.0
7.	Average Particle Size, D ₅₀ , μm	About 10-12

Applications of HOFNIL-FR A2M (Melamine coated Ammonium polyphosphate II):

- **Plastics and Polymers:** Used as a flame retardant in polypropylene, polyethylene, polyurethanes, and other thermoplastics.
- **Coatings:** Ideal for use in intumescent coatings for buildings and steel structures.
- **Textiles:** Enhances the flame retardancy of fabrics used in public transportation, children's clothing, and other safety-related textiles.
- **Adhesives and Sealants:** Provides flame retardant properties in various adhesive and sealant formulations.

Advantages of HOFNIL- FR A2M (Melamine coated Ammonium polyphosphate II):

- **Enhanced Flame Retardancy:** Promotes the formation of a stable char layer during combustion.
- **Increased Thermal Stability:** Higher decomposition temperature compared to uncoated APP.
- **Improved Water Resistance:** Reduced solubility in water, making it suitable for humid environments.

- **Better Compatibility:** Easier to incorporate into different formulations without adversely affecting the material properties.
- **Reduced Smoke and Toxicity:** Lower smoke production and reduced toxicity of combustion products.
- **Non-hygroscopic:** Does not absorb moisture from the environment, enhancing stability.
- **Non-flammable:** Safe to handle and store without risk of ignition.

Shelf-life: 2 years from date of manufacturing.

Packing Size:

20Kg BOPP laminated bag with polythene liner.

Please Note: We are manufacturing other grades of A2M, blends, and surface coated A2M as well. We can provide technical data or assistance in order to make better FR for any kind of material.

For further information, please contact manufacturer:

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