

Product Information

APP-II

Product Description:

APP-II, also known as long chain ammonium polyphosphate phase II, is a fine, white powder. APP-II does not contain halogens. APP-II has a very low solubility in water and is insoluble in organic solvents. At temperatures above 300 °C APP-II decomposes to polyphosphoric acid which dehydrates polyols, carbohydrates and other ROH and RNH containing substances. Subsequently, the generated char is expanded by water and ammonia to form a foamed up solid heat protective barrier.

Applications:

APP-II is used as a fire retardant in surface coatings such as water and solvent-based intumescent paints and mastics to protect underlying polymer, steel and wood. It can be used in a variety of polymers. Approximately 20-25 % APP-II, based on the total weight of the liquid paint, is used in formulations of intumescent paints.

Chemical Formula:



CAS No. :

68333-79-9

Typical Values:

Parameters (units)	Typical Values
P ₂ O ₅ (%)	72
N (%)	14
pH, of 10% aqueous solution	7.0
Solubility in water (g/100 mL)	0.5
Decomposition temperature (°C)	300
Bulk density (g/mL)	600
Specific gravity	1.9
Particle size, particles retained on 100 µm (%)	0.05
Mean particle size, D50 (µm)	18
Moisture (%)	0.05
Oil absorption (g/100 g)	35

*% denoted represents wt/wt %, unless noted otherwise

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Packaging:

Material is available in 20 kg bags with PE lining, 500 kg big bags and 1000 kg big bags. Further packaging options may be available upon inquiry.

Storage:

Product should be stored in a cool and dry place away from direct sunlight in sealed, original packaging.

Safety:

For further safety information refer to product SDS available from your Bisley International contact.

Disclaimer: This document is for information purpose only. Customers are responsible for testing and conforming the suitability of this product in their application. To the extent permitted by law, no warranty as to merchantability or fitness of purpose, expressed or implied, is made.

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