

## Product Data Sheet

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### Apyrum 1002.12

This is a product data sheet regarding the products:

#### **Apyrum 1002.12**

### Product Description

The flame retardant Apyrum 1002.12 is an additive formulated to provide a system that offers a unique combination of advantages:

- High performance flame retardant properties such as smoke reduction, reduction in acidity of the residue, reduction in heat release, and self-extinguishing attributes.
- Environmentally friendly during its entire life cycle.

Apyrum 1002.12 is a white salt. It is an environmentally-friendly system that consists mainly of natural carboxylic acid salts. All the components of Apyrum can be classified and approved as food additives.

Apyrum 1002.12 can be used in many different industrial applications such as building and construction materials, furniture, films, and cables. Apyrum 1002.12 has shown synergistic effects with some mineral fillers, phosphate ester plasticizers, ATH and other compounds, making it even more cost efficient.

### System Description

Apyrum is a flame and fire retardant that will alter a materials behaviour in fire. It is acting as a char promotor and creates a protecting layer of char on the surface if the material. By adding Apyrum to your material in the right way you can make your material hard to ignite or self-extinguishing, without altering the materials initial properties to much.

Apyrum is an intumescent flame retardant system that functions in multiple ways depending on the material and prevailing conditions; these functions include:

- Endothermic reaction with thermal energy absorption
- Intumescent / charring reaction which also prevents dripping
- Production of a char layer insulation
- Smoke suppressant

## Typical Physical Properties

Properties / Product	Apyrum 1002.12
General usage:	Industrial or general use
Physical appearance:	White powder
Particle density (g/cm <sup>3</sup> ):	1,9
Bulk density (g/cm <sup>3</sup> )	~0,5
Dry substance at 105°C (%)	>97,0%
Solubility in water:	Not soluble, low solubility
pH when dissolved in water	7-10
Decomposition point (°C)	> 250
Odour:	Odourless
Melting point (°C):	Does not melt
Flame point (°C):	Does not burn
Boiling point (°C):	Over 100°C
Flash point:	Not applicable
Flammability:	Not flammable

## Stability & Reactivity

Please see MSDS.

Conditions to avoid: Avoid high moisture environments

Materials to avoid: Strong acids and bases

Hazardous decomposition products: Not known

## Handling & Storage

Please refer to MSDS

Handling: Avoid the formation of dust. The contents of an opened package are influenced by air moisture and should be handled according to technical specifications.

Storage: Keep bulk bagged and dry until used. Handle in a well-ventilated area if there is a risk for dust or if the product is dispersed or mixed.

Requirement for storage and packing: Keep in an area having a dry, stable temperature.

## Shipping Information

Packaging sizes: PP Lined paper bag or PP bag on pallets, bags of 20 Kg, pallet 500 kg.

Transportation classification: Non-dangerous goods

REACH: Preregistered in REACH

Minimum purchase order: Available from DEFLAMO sales or customer service

These properties are general and do not constitute a specification either in part or as a whole.

Specification data is available on request from DEFLAMO sales, customer service, or customer technical service.

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