

## Cyclic Phosphonate

Molecular formula: C<sub>9</sub>H<sub>20</sub>O<sub>6</sub>P<sub>2</sub> or C<sub>15</sub>H<sub>31</sub>O<sub>9</sub>P<sub>3</sub>

CAS No.: 41203-81-042595-45-9

### 1. Brief introduction

This series is compound which can be applied in the following field: furniture and decorative textiles, automotives textiles, toy textiles, dipping and coating textiles after treat process.

### 2. Product characteristics

- 1) The products are good FR finishing agents for polyester textiles, and have high flame retardant efficiency and good durable; the flame retardant textiles treated with them have good flame retardancy to more than 30 launderings.
- 2) The flame retardant textiles treated with hem have not after-yellow.
- 3) Non-halogen and non-heavy metal, meet the environmental demand of European and other developed countries.
- 4) With good comfortable and shape protection after being treated.
- 5) With good light and heat stability, applied to decorative textiles which demands high appearance and so on.

### 3. Recommended dosages and use

Textile weight g/m <sup>2</sup>	FR dosage g/L
Less than 100	280-320
100-200	200-260
More than 200	150-200

Baking for 1.5-3 minutes under 190-200°C after dipping, and than washed with water, baked, and finalized.

Use attention:

- 1) Calculate the dosage based on the weight of the textile, dissolve in water and make PH range within 6-6.5 with sodium hydroxide. Add 0.5-1.0% penetrate liquid JFC according to textile density, and then add water to certain concentration.
- 2) With no smoky and other impurity after being treated, keeping 75% humidity when dipping, and make sure the weight gain after handling.

### 4. Packing and transport

60kg, 120kg, 250kg plastic bucket, Upload and download gently, inversion is forbidden, 18 months storage period in ventilated and dry place.

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