

Cyclic Phosphonate

Molecular formula: $C_9H_{20}O_6P_2$ or $C_{15}H_{31}O_9P_3$

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 ²	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 natrium hydroxide. Add 0.5-1.0% penetrate liquid JFC according to textile density, and then add water to certain concentration.
- 2) With no smeary 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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