

# Product Bulletin

supresta™  
BUILT-IN DEFENSE

Fyrol® PNX

**Fyrol®**  
Flame Retardants

**Chemical Name:** Alkylphosphate oligomer

**CAS #:** 184538-58-7

**Proprietary Composition**

## Fyrol Product Selector

	Key polyurethane foam application	Key characteristic
6	Rigid, flexible—flame lamination	Reactive flame retardant.
38	Flexible	Low scorch.
FR-2	Flexible	Excellent hydrolytic stability, low volatility, low fogging, and processing characteristics.
FR-7	Flexible	Good compression set, IFD and scorch properties, low volatility, low scorch, and good processing characteristics.
HF-4	Flexible	Halogen-free, low scorch with good compression set and IFD properties. Recommended for Cal 117 and MVSS 302 foams.
PCF	Rigid, flexible—BS5852	Excellent hydrolytic stability.
PNX	Flexible	Highly efficient halogen-free flame retardant.
TEP	Rigid	Halogen-free flame retardant, excellent viscosity reducer for high viscosity polyols.

## Overview

Fyrol® PNX is a halogen free additive flame retardant used in flexible polyurethane foam. This material is non-corrosive to glass or metals.

## Key Applications

Fyrol® PNX is a highly efficient halogen free flame retardant suitable for flexible polyurethane foam. It is most suitable for MVSS 302 and Cal 117 type foams. Its high molecular weight is also another advantage in automotive foams because in suitable formulations it is low fogging and can give foams low in VOC emissions. Although performance will vary depending on density and formulation it is not unusual to see a reduction of 50% in the level of flame retardant necessary to meet the above tests in slabstock foam. **The product is very hygroscopic. Keep sample bottles, drums etc. closed.**

## Typical Properties

Appearance	clear, transparent liquid
Color, APHA	<350
Acidity	<2.0mg KOH/g
Water	<0.1
Hydroxyl value	approx. 2
Phosphorus content	19%
Flash point (Setaflash, CC)	208°C
Water solubility	Miscible

## Safety & Handling

Consult the Material Safety Data Sheet for this product.

## Shipping Information

Available in bulk, 1270 kg IBC, 2800 lb tote, 268 kg & 590 lb drum.

For more information about our products and to place an order, please contact one of Supresta's regional sales offices.

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