

Product Bulletin

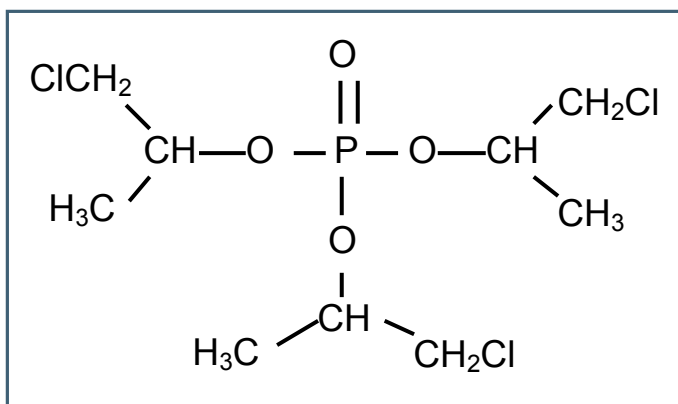
supresta™
BUILT-IN DEFENSE

Fyrol® PCF

Fyrol®
Flame Retardants

Chemical Name: Tris (2-chloroisopropyl) phosphate

CAS #: 13674-84-5



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® PCF is an additive flame retardant with very good hydrolytic stability used extensively in rigid and flexible polyurethane foams. Fyrol® PCF is soluble in most common organic solvents and shows outstanding polymer compatibility.

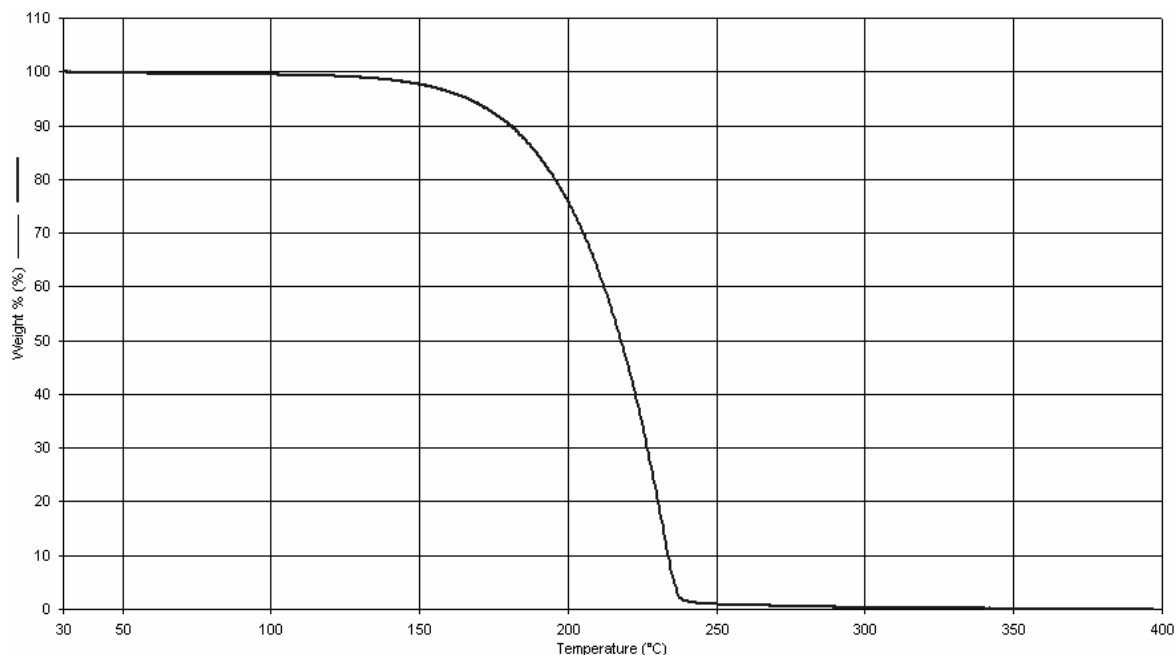
Key Applications

Fyrol® PCF is widely used for laminate roofing and spray formulations. A class II ASTM E84 rating can be achieved with Fyrol® PCF. It has superior hydrolytic stability for A or B components. Fyrol® PCF can be used with unsaturated polyester resins and phenolics. It is an adjunct flame retardant for flexible-melamine foams to meet the British BS5852 test. It may also be used in thermoset and thermoplastic materials as well as for textile finishes.

Typical Properties

Physical appearance	Clear, transparent liquid
Phosphorus content, wt. %	9.5
Chlorine content, wt. %	32.5
Specific gravity, 25°C/25°C	1.290
Density @ 25°C, lbs/gal	10.8
	kg/m ³
	1290
Viscosity @ 25°C, mPa.s	72
Acidity, mg KOH/g	0.08 max
Water content, wt. %	0.07 max
Color, APHA	<75

Thermogravimetric Analysis: Fyrol® PCF (10°C rise/minute in nitrogen)



2% wt. Loss	116°C
5% wt. Loss	166°C
10% wt. Loss	180°C

Safety & Handling

Consult the Material Safety Data Sheet for this product.

Shipping Information

Available in bulk tank trucks, isocontainers, 2,800 lb totes, and 590 lb drums.

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

AMERICAS REGIONAL SALES OFFICE
Ardsley Park at 420 Saw Mill River Road
Ardsley, New York 10502 USA
914.269.5900, 800.666.1200
fax 914.674.9735

ASIA PACIFIC REGIONAL SALES OFFICE
12/B, Sun Tong Plaza, No.55 Huai Hai Road West
Shanghai 200030 China
86 21 5298 9058
fax 86 21 5298 9352

EUROPEAN REGIONAL SALES OFFICE
Hoefseweg 1, PO Box 2501
3800 GB Amersfoort, The Netherlands
31 33 4534 575
fax 31 33 4534578

All information concerning this product and/or suggestions for handling and use contained herein are offered in good faith and are believed to be reliable as of the date of publication. However, no warranty is made as to the accuracy of and/or sufficiency of such information and/or suggestions as to the merchantability or fitness of the product for any particular purpose, or that any suggested use will not infringe any patent. Nothing herein shall be construed as granting or extending any license under any patent. Buyer must determine for itself, by preliminary tests or otherwise, the suitability of this product for its purposes, including mixing this product with other products. The information contained herein supersedes all previously issued bulletins on the subject matter covered.