



# Pyrosan™ CF1

NON-HALOGEN HIGH TEMPERATURE FLAME RETARDANT

## Pyrosan™ CF1 Non-Halogen High Temperature Flame Retardant

### Product Description

Pyrosan™ CF1 Non-Halogen flame retardant is a highly efficient and unique high temperature flame retardant system, based on proprietary technology and designed for optimal use in unreinforced and reinforced polyamide 6,6 resin systems applications requiring optimal flame retardancy. In addition to its efficient flame retardancy mechanism, it has very low water solubility.

Pyrosan™ CF1 flame retardant performance offers quick interruption of the combustion cycle with additional intumescent charring action offering efficient self-extinguishing and low smoke characteristics. In addition, by design, Pyrosan™ CF1 inherently prevents dripping of molten polymer in polyamide materials. The additive is designed to offer good physical and electrical properties. Pyrosan™ CF1 flame retardant does not contain any heavy metals, PBBs, PBDEs, phthalates, or halogens in accordance with RoHS.

### Applications

- Unreinforced and reinforced Polyamide 6 and 6,6 resin systems

In glass fiber reinforced systems, suggested loading levels are 15-20% for UL94 V-0 (1/16" or less) flammability ratings. Results may vary subject to the polymer grade, formulation, processing conditions, and glass fiber reinforcement. It is generally recommended that melt temperature of the resin containing the additive shall not exceed 305C during processing.

| Typical Properties                | Typical Values                            |
|-----------------------------------|---|
| Appearance                        | Finely divided, free-flowing white powder |
| Specific gravity                  | 1.82                                      |
| pH                                | 4   |
| Bulk Density (g/cm <sup>3</sup> ) | .76                                       |
| Decomposition (2% w/l)            | >315°C                                    |
| Median particle size (D50)        | <15 microns                               |

### Health and Safety Information

Product health and safety information may be obtained from the Material Safety Data Sheet (MSDS). For a copy, please call 440-354-3919 or email at: [david.diefenthal@jji-technologies.com](mailto:david.diefenthal@jji-technologies.com). Before using any product, a customer is advised to review the MSDS of a respective product.

For more information or samples call:

440-354-3919, e-mail: [sales@jji-technologies.com](mailto:sales@jji-technologies.com),

or visit us online at [www.jji-technologies.com](http://www.jji-technologies.com)