

Non-Halogen Intumescent Masterbatch for Fire Safe PPRC Pressure Pipes



Engineered for EN 13501-1 B-s1-d0



EN 13501-1



Low smoke



Anti drip



Non-halogen



Strong char

A high performance non-halogen intumescent masterbatch designed for PPRC pressure pipes and multilayer systems requiring EN 13501-1 B-s1-d0. It delivers low smoke, strong char, and anti drip behaviour while maintaining weldability and mechanical strength.

Why Non-Halogen?

Halogenated FR systems struggle with smoke, corrosive gases, and poor char - making B-s1-d0 difficult to achieve. They can also affect weldability and long term pipe performance.

Offers a cleaner, safer, future proof alternative:

- No halogens, no red phosphorus
- Low smoke, no corrosive gases
- Excellent char formation for B class performance
- Stable weldability and pressure resistance
- Compliant with modern building and environmental expectations

Performance Summary

- Supports EN 13501-1 B-s1-d0
- Strong char formation
- Low smoke
- Anti drip behaviour
- Maintains weldability and mechanical integrity



Non-Halogen Intumescent Masterbatch for Fire Safe PPRC Pressure Pipes



Key Features

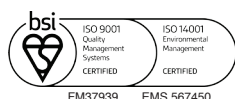
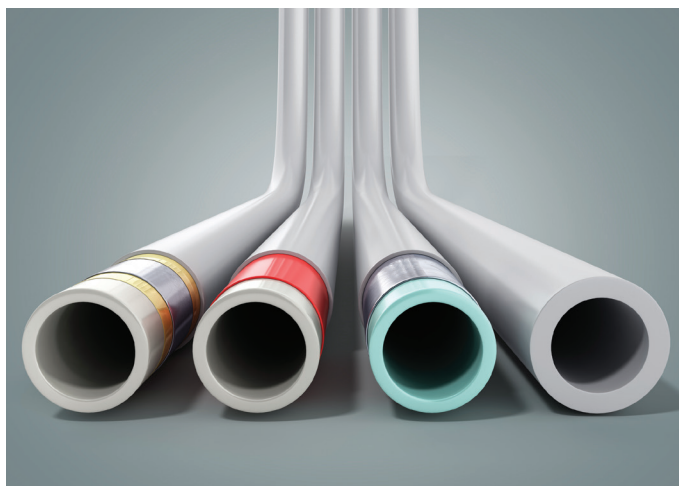
Fully Non-Halogen Technology - Complies with all non-halogen requirements - Safe, proven intumescent chemistry	Designed for PPRC Pressure Pipes - Compatible with low MFI PPRC - Maintains weldability and mechanical integrity - Suitable for single layer and multilayer pipes
Optimised for EN 13501 -1 with Certification B-s1-d0 - Strong, cohesive char - Low smoke generation - Anti drip performance - Consistent results across large and small pipe diameters	High Loading Efficiency - Effective at 50% in all layers - Optional 55% in outer layer for extra fire margin - No exotic or costly additives required
Excellent Processability - Smooth twin screw compounding and extrusion - Stable melt flow and good dispersion - Non corrosive, non abrasive formulation	Cost Optimised - Uses widely available raw materials - No dependency on speciality chemicals - Competitive for high volume pipe producers

Technical Highlights

- Appearance:** White/off white granules
- Carrier:** PP random copolymer
- Additive system:** Non-halogen intumescent
- Recommended dosage:** 50% (all layers), 55% (outer layer optional)
- Processing temperature:** 180-210 °C
- Moisture sensitivity:** Low (drying recommended)
- Applications:** PPRC pressure pipes, multilayer pipes, fittings

HS code 38249999

Please note that customs classifications may vary by country. Customers are advised to verify the applicable HS code with their local customs authority or broker before importation.



@ Symphony Environmental

Disclaimer: Symphony's products are supplied to businesses, not to consumers. Symphony does not give legal advice, and it is therefore the buyer's sole responsibility to identify and comply with all legislation which applies to the sale and use of Symphony's products, and goods made with those products, in the place where they are placed on the market, sold and/or used. It is also therefore the buyer's sole responsibility to identify and comply with all applicable legislation and codes of practice when making any statement on or in respect of such products and/or goods.

Symphony Environmental Ltd
6 Elstree Gate, Elstree Way, Borehamwood, Hertfordshire WD6 1JD, UK
Tel: +44 (0)20 8207 5900 | Fax: +44 (0)20 8207 7632 | info@d2p.net

www.d2p.net

