

Non-Halogen Intumescent Masterbatch for Fire Safe PPRC Pressure Pipes



Engineered for EN 13501-1



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



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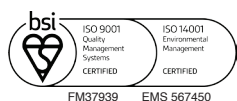
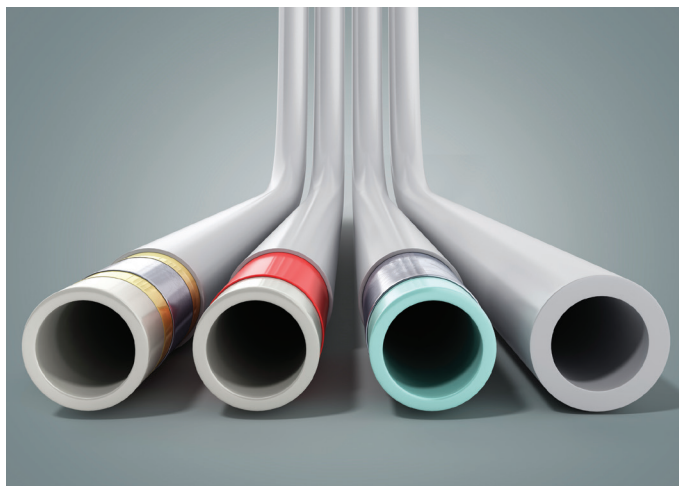


Key Features

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



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