



UNITED INITIATORS
driving your success

Flame Retardant Synergists for Expandable and Extruded Polystyrene Foams



Global Challenge: The demand for better flame retardants continues to increase due to:

- rising global safety standards
- needing less harmful substances, particularly in the building and construction industries
- growing environmental and health concerns surrounding hexabromocyclododecane (HBCD) and other brominated flame retardants

With stricter worldwide regulations, advanced HBCD alternatives are being developed. Rising to the challenge, our scientists developed the next generation of synergist ideally compatible with replacement bromine technologies used in Expandable (EPS) and Extruded (XPS) Polystyrene.

Innovative Solution: CC-initiators complement new polymeric brominated flame retardant products.

CUROX® CC-DC
CUROX® CC-P3

How CC-Initiators Work

- 0.2% (2000 ppm) of the carbon-carbon initiators require lower amounts of brominated flame retardants
- A compound byproduct, C-radicals, triggers the chain-reaction burning process
- The C-radicals support bromene radical formation

CUROX® Performance Benefits:

- Improved polymer degradation
- Extensive heat reduction
- Faster self-extinguishing effect

CUROX® Performance Advantages:

- Halogen-free
- Ecologically safe (no dangerous materials)
- No migration
- Equivalent or increased effectiveness
- Odorless
- Thermally stable
- Low dosage

