

Introducing The Kemgard[®] 600 Product Series

Designed to Meet and Exceed Today's Global Performance and Regulatory Demands for Rigid and Flexible PVC Applications

The new Kemgard[®] 600 Product Series from Huber Engineered Materials are effective smoke suppressants in rigid and flexible PVC applications. From pipe and fitting compounds in high rise buildings to panels and decorative materials used in today's building and construction market to modern aerospace interior panels, there's a Kemgard 600 Series grade to meet your most challenging smoke requirements.

The Kemgard 600 products are designed to catalyze crosslinking in the PVC matrix leading to improved organic char formation, effectively insulating the polymer from the heat and oxygen source thereby lowering heat and smoke release. In addition, they have been developed around an active core material that further improves their efficiency and these innovative products have been shown to partially or fully replace antimony trioxide (ATO) and zinc borate in many rigid and flexible PVC applications.

Kemgard[®] halogen-free smoke suppressants are manufactured by a patented process in which molybdates are precipitated on a functional core material. This "coated core" approach makes more efficient use of the molybdate species by maximizing its active surface area, while combining it with a selected core material that can offer secondary benefits like additional fire retardancy or improved processability.



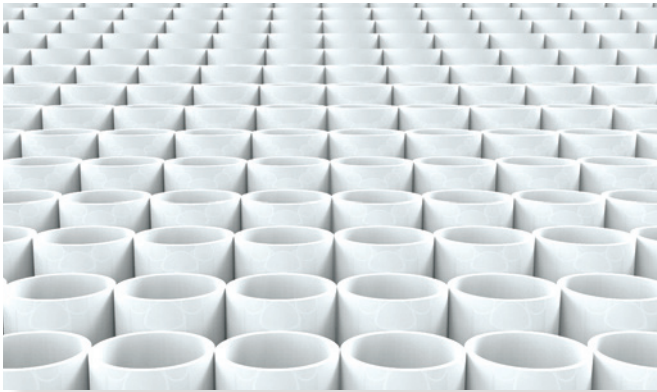
The Kemgard[®] 600 Product Series

represents Huber's latest HFFR complex technology specially designed for PVC Applications

- Partially based on molybdate chemistry
- Balanced fire retardance and smoke suppression in PVC
- Can be used to partially or fully replace antimony trioxide (ATO) and zinc borate in most rigid and flexible PVC formulations
- Good balance of price and performance for cost sensitive formulations
- All products are registered: CA, CN, EU, IN, JP, KR, MX, PH, TH, TW, US

Kemgard® 600 Product Series Recommendations for PVC Applications

Product	Description	Primary PVC Applications	Typical Use Levels	Benefits
Kemgard® 605	Zinc Molybdate / Aluminum Hydroxide Complex	<ul style="list-style-type: none"> - PVC – Wood Composites - Rigid PVC Profiles - PVC Wire and Cable 	5 – 15 phr (Rigid PVC) 15 – 25 phr (Flexible PVC)	<ul style="list-style-type: none"> - Balanced fire retardance and smoke suppression in PVC wire and cable applications - Cost-effective smoke suppressant in PVC applications
Kemgard® 620	Zinc Molybdate / Aluminum Hydroxide Complex	<ul style="list-style-type: none"> - PVC Foam Insulation - PVC Wire and Cable - PVC Sheeting 	5 – 10 phr (Rigid PVC) 15 – 25 phr (Flexible PVC)	<ul style="list-style-type: none"> - Excellent fire retardant and smoke suppression in PVC wire and cable applications - Designed for processing temperatures at <200° C
Kemgard® 631	Proprietary Zinc / Aluminum Complex	<ul style="list-style-type: none"> - Broad Range of Rigid and Flexible PVC Applications 	5 – 10 phr (Rigid and Flexible PVC)	<ul style="list-style-type: none"> - Highly effective fire retardant additive for flexible and rigid PVC applications - Fire retardant with excellent Limiting Oxygen Index (LOI) performance



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