

CEASEFIRE™ Powder Additives

CEASEFIRE™ is a revolutionary, intumescent, flame retardant which surpasses all other flame retardant technologies in terms of power, versatility, and cost efficiency. The inception of CEASEFIRE™ dates from the original Apollo spaceship missions in the late 1960's.

Additives Descriptions

All of our CEASEFIRE™ powder additives are organ- phosphates free of halogens, toxins, and corrosive gasses. They each have a char forming efficiency of at least 99%.

AC-2

CEASEFIRE™ AC-2 is ideal for incorporation into thermoset coatings and foams, potting compounds, fiberglass reinforced structures, as well as electronic laminates and many other applications. CEASEFIRE™ AC-2 has been proven successful in epoxy, phenolic, acrylic, vinyl acetate, urethane and PVC resin systems.

AC-3

CEASEFIRE™ AC-3 is recommended for use in both indoor and outdoor application in resins including epoxies, acrylates, polyvinyl acrylate, PVA emulsions, and PVC. Applications where CEASEFIRE™ AC-3 has found utility vary greatly from waterborne paints and adhesives to wire and cable.

AC-3WM

CEASEFIRE™ AC-3WM is a unique amino phosphate that can be used to suppress smoke and prevent burning in polyolefin such as polypropylene and polyethylene. It is also effective in polyurethane foams and coatings.

DBK

CEASEFIRE™ DBK is recommended for use in both indoor and outdoor application in two part urethanes. Applications where CEASEFIRE™ DBK has found utility vary greatly from urethane adhesives, non-skid coatings, and urethane potting and encapsulating systems.

Industry Uses

Because CEASEFIRE™ was kept as a military secret for several decades, it has only recently been commercialized and tested in industries. It has thus far found success in:

Plastics | Adhesives | Fiberglass | PVC | Nylon | Construction materials, including foams | Paints and coatings produced by other manufacturers | Other resin systems

The CEASEFIRE™ Advantage:

- ✓ Higher performance
- ✓ Cost effective
- ✓ Low loading levels
- ✓ Non-halogenated
- ✓ Long term stability
- ✓ Thermal stability
- ✓ Good for outdoor use
- ✓ Lower water solubility than APP

CEASEFIRE™ Powders for Suitable Resin Systems

	AC2	AC3	AC-3WM
Epoxy	✓	✓	
Phenolic	✓		
Acrylic		✓	✓
Vinyl Acetate		✓	✓
Urethane*	✓	✓	✓
PVC	✓		
Nylon	✓		
Acrylates		✓	✓
Polyvinyl Acrylates		✓	✓
PVA Emulsions		✓	✓
Waterborne Paints		✓	✓
Wire & Cable Adhesive		✓	✓
Polyolefin			✓
Polypropylene			✓
Polyethylene			✓
Polyurethane Foams			✓

CEASEFIRE™ Halogen Chart

	AC2	AC3	AC-3WM
Halogen Free	Yes	Yes	Yes
Toxic Gases	No	No	No
Corrosive Gases	No	No	No
Non Water Soluble	<1% @ 76.67°C, or 170°F	<1% @ 25°C, or 77°F	<1% @ 25°C, or 77°F
Appearance	Free flowing white powder	Free flowing white powder	Free flowing white powder
Normal Sizing Particle	3-5 microns	average 10-12 micron	average 10-12 micron
Char Forming Efficiency	99% min.	99% min.	99% min.
Purity	98% min	99+	99+
pH (10% slurry) in 7.0 H2O	4-4.5	7.0-7.6	7.5-7.8
Normal Loading % by Weight	8-10	30-35	10-15
Char Activation Temp	260-300°C (DS 300 °C)	200°C	220°C
Content of Material	organo phosphate	organo phosphate	organo phosphate



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