



Superior
Fire
Protection

 **Ascent Chemicals™**

PyrGuard

For over a century, Ascent has led the way in flame-retardant innovation, delivering trusted solutions since 1919.

Our PyrGuard portfolio of advanced flame retardants offers safer, eco-conscious alternatives to traditional brominated and chlorinated compounds, addressing fire safety challenges across industries such as textiles, construction, furniture, electronics, and transportation.

With a focus on phosphorus-based systems and cutting-edge technology, our products deliver proven performance while meeting the most stringent safety standards. Whether you need a durable treatment for fabrics or an environmentally responsible solution, Ascent's tailored offerings provide exceptional fire resistance and reliability. Let our expertise help safeguard your materials and applications.

A woman with blonde hair and glasses, wearing a blue lab coat with an "Ascent Chemicals" logo, is working in a laboratory. She is holding a glass apparatus, possibly a test tube or a small container, and looking at it intently. The background shows various pieces of laboratory equipment, including pipes and gauges, under warm lighting.

Let our experienced team guide you in selecting the perfect PyrGuard product or custom-formulate a solution tailored to your unique application, reinforcing our commitment to being your ultimate fire protection partner.

Phosphorus Flame Retardants

PyrGuard 62

PyrGuard 62 is a highly concentrated dispersion of water insoluble fire retardants. It is processed into a refined micro dispersion for easy delivery to into most processes. PyrGuard 62 has very high activity and is effective in many applications where lower solids materials are not suitable. PyrGuard 62 does not affect the substrate's color and it is odorless & non-fuming. PyrGuard 62 is designed to be an effective and safe replacement for brominated and chlorinated compounds. The high concentration, small particle size, safe ingredients, and effectiveness of PyrGuard distinguish it from other fire retardants.

PyrGuard 66

PyrGuard 66 is a durable flame retardant for polyester fabrics ideally suited for drapery, upholstery, and automotive products. The product is also effective to a lesser degree on various blends such as nylon and polypropylene and it can be used to pass NFPA 701 small-scale tests on fabrics that have a flame-retardant back coating. PyrGuard 66 has excellent compatibility with most latex systems employed in back coating. These systems are usually applied to automotive fabrics, wall panel fabrics and upholstery products. These formulas usually contain 10-30% Fire Retard 66 and the balance, latex. The systems are thickened to required viscosity and back coated. These systems are innocuous when compared to the more toxic brominated products and antimony oxide. PyrGuard 66 is noncorrosive and passes dielectric sealing.

PyrGuard KK

PyrGuard KK is a highly effective, semi-durable organic flame retardant. It is nontoxic, non-hygroscopic, rust inhibiting and will not cause color change with most dyestuffs. PyrGuard is suitable for use on all types of cotton or rayon fabrics including those that have synthetic

fibers present, such as polyester. The product was originally designed for use on drapery and decorative fabrics including those fabrics composed of cotton and cotton/polyester which require a flame-retardant topical finish durable to dry cleaning.

PyrGuard 102-52A

PyrGuard 102-52A is a highly effective, semi-durable organic flame retardant. It is nontoxic, not hygroscopic, rust inhibiting and will not cause color change with most dyestuffs. It is suitable for use on all types of cotton or rayon fabrics including those that have synthetic fibers present such as polyester. The product was originally designed for use on drapery and decorative fabrics including those fabrics composed of cotton and cotton/polyester which require a flame-retardant topical finish, non-rusting and durable to dry cleaning.

PyrGuard DAP

PyrGuard DAP is a versatile flame retardant based on diammonium phosphate (DAP), offering superior fire resistance for textiles, cellulose-based materials, and wood products. It suppresses flames by releasing inert gases in the gas phase and forms a protective char layer in the condensed phase, insulating materials from heat and oxygen. Easily applied via dipping, spraying, or impregnation, PyrGuard DAP ensures consistent fire protection and meets stringent safety standards. Its proven performance makes it an ideal choice for industries like construction, furniture manufacturing, textiles, and transportation.

Surfactants

Ascent offers a full range of phosphate surfactants that work synergistically with our PyrGuard Phosphate-based systems to improve performance.



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