



## » PRODUCT BULLETIN

# Cesa™ Flame Retardant Additives

Cesa™ Flame Retardant Additives allow manufacturers to design with increased confidence for critical flame and smoke requirements. These additive solutions create a char or gas that reduces oxygen at the source of flame, leading to components that become self-extinguishing and potentially lowering the heat release rate over time. Fire time to ignition is increased while heat release and fire spread are reduced, resulting in enhanced fire safety for life and property.

### STAYING COMPLIANT

With an increasing demand for fire safety, new fire-related legislation and restrictions have become an expectation. Using Cesa Flame Retardants (FR) help ensure that today's stringent building safety codes and other regulations are met.

Manufacturers have the ability to design and validate to meet UL criteria:

- UL 94 V-0
- UL 94 V-1
- UL 94 V-2
- ASTM E-84 (Class A, B, C)
- UL 94 HB
- UL 94 5VA
- UL 94 5VB

Avient's Corporate Technology Analytical testing lab participates in UL's Total Certification Program and their Client Test Data Program, helping manufacturers reduce time to market by integrating the product certification process in a comprehensive program.

### NON-HALOGENATED CHOICES

In addition to standard halogenated options, Cesa Flame Retardant Additives are also available as non-halogenated formulations. These more environmentally mindful choices are especially well suited for areas where smoke lessening and toxicity are of concern, such as closed spaces or restricted escape.

As part of the FR portfolio, Cesa MAX FR additives are non-halogenated materials developed to pass strict test methods and provide exceptional UL 94 compliance. They consolidate the maximum loading levels of fire safety ingredients to meet diverse compliance standards across multiple applications.

Both halogen and non-halogenated formulations are available for use across a variety of resins and can be customized for specific needs.





## TARGET APPLICATIONS

- Aerospace
- Appliances
- Automotive, including electric vehicles
- Building & construction
- Electrical & electronics
- Public transportation
- Recreational vehicles
- Motorcycles, e-bikes, & scooters
- Wire & cable

## IMPACT

- Reduce spread of fire and heat release
- Limit the amount of smoke allowing people to find their way to safety more easily
- Limit toxicity and acidity of gases so people are less likely to be overcome by fumes
- Enhance char formation, avoiding droplets which can proliferate fire
- Meet regulation and legislation requirements

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