



Eco FR™

What you need to know

camira

Ec^oFR™

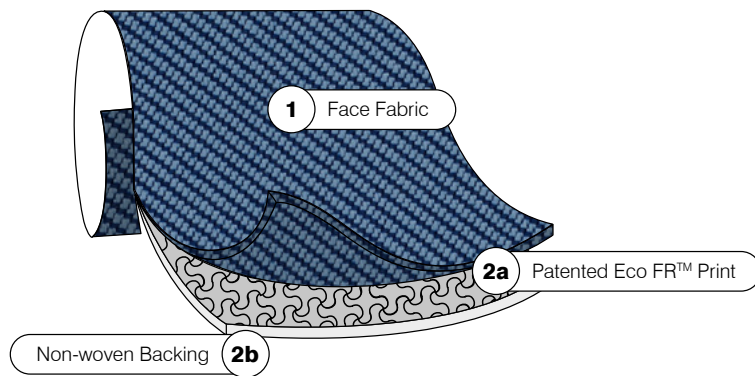
What it is

Eco FR™ is Camira's patent-pending, environmental flame retardant (FR) fabric technology that enables fabrics to achieve key FR requirements in the domestic, contract and transport interiors sectors.

Engineered by our in-house technical team, this innovative laminate backing enables optimal flammability performance of fabrics while minimising the use of chemicals, thus conserving raw materials and reducing our environmental footprint.

How it is applied

The patent-pending halogen free FR solution is printed onto the non-woven backing made from renewable viscose which is then laminated to the face fabric of your choice.



The image shows the face of the fabric with the patented Eco FR™ print (2a) and its non-woven backing (2b).



The Eco FR™ backing is easily recognisable on the fabric reverse with its unique aesthetic following its highly engineered function. You won't see this once your item is upholstered but it will be in the background doing a vital job.

How it works

Eco FR™ is a halogen free FR technology that uses the minimal amount of tailored chemistry for maximum efficacy. Its dual action solution stops burning through two functional modes; a flame inhibiting function and protective char barrier formation.

In contract and domestic tests, the Eco FR™ treated fabric creates a strong char using minimal chemical to create a barrier layer and inhibits burning.

The table below shows the tests passed for different fabrics.

Fabric	BS 7176 Medium Hazard	Domestic cigarette & match	IMO Part 8
Era	✓	✓	✓
Kyoto	✓	Passes without Eco FR™	Passes without Eco FR™
Oceanic	✓	✓	✓
Penta	✓	Passes without Eco FR™	Passes without Eco FR™
Quest	✓	✓	✓
RePlay Zero		✓	✓
Rivet	✓	✓	✓
Sumi	✓	Passes without Eco FR™	Passes without Eco FR™
X2	Passes without Eco FR™	✓	✓
Xtreme	Passes without Eco FR™	✓	

To explore the full range of fabrics on which Eco FR™ is available, contact your Camira representative or look for 'with Eco FR™' on our fabric pattern cards. Our team is ready to assist you in finding the perfect FR solution for your needs.

Eco FR™ at a glance

- Environmental FR technology
- Patent-pending
- Halogen-free
- Highly effective
- Minimum chemistry
- Sustainable FR solution
- Easy upholsterability
- Lightweight
- 140cm width
- 5 year guarantee

FAQs

What is the MOQ and leadtime?

Camira Eco FR™ has a minimum order quantity of 10 metres and we ask you to allow a 10 working day leadtime.

What is the difference between Eco FR™ and other FR post treatments?

- More effective gram-for-gram use than traditional FR treatments, ensuring a more effective and robust performance.
- Significantly lower minimums.
- Can be used on lighter weight and lighter colour face fabrics.
- Shorter lead-time as we undertake the post-treatment in-house.
- It gives the back of the fabric a soft textile feel making it easy to slip over upholstery foams compared to rubbery finishes used in traditional textile coatings.

What is a halogen?

Halogen based chemicals containing Bromine and Chlorine have been traditionally used as flame retardants due to their effectiveness to suppress burning.

Why change to a halogen-free FR solution?

As researchers, legislation and business have learnt more about halogenated chemicals, their persistence and health risks have become clearer. Within some industry leading markets halogenated FR chemistries are already banned or under review and increased awareness of these risks motivates us to find greener and safer flammability solutions, without compromise.

What are the benefits of Eco FR™ being halogen free?

The chemicals used in Eco FR™ have been specifically selected to contain no halogenated components avoiding any bio-accumulation or toxic effects. Unlike traditional flame retardants, Eco FR™ is:

- Bromine free
- Antimony free
- Organophosphate free
- Chlorine free
- Fluorocarbon free
- PFAS free
- Free of bio-accumulative chemicals
- Free of carcinogenic chemicals
- Free of chemicals disruptive to the reproductive system
- Free of chemicals with negative neurological effects

Safely processed to reduce any harmful impact of production to people and the environment, Camira Eco FR™ offers the ultimate in both sustainable design, and fire retardancy. The perfect choice for eco-conscious consumers.

What is the chemistry of Eco FR™?

A micro encapsulated phosphorous based chemistry.



www.camirafabrics.com