Camira EnviroFlam5

An eco-friendly, halogen-free Crib 5 flame retardant backing.

camira

Ultra-light and free from harmful chemicals, this brand-new flame-retardant backing is environmentally friendly, easy to upholster and exceptionally high performing. Developed for use with both wool and polyester fabrics, Camira EnviroFlam5 enables a number of our most popular ranges to meet the UK's higher-level commercial FR certification for public spaces - Crib 5 Medium Hazard.

So, what does Crib 5 mean?

Crib 5 refers to the wooden crib structure which is used in the test to determine a textile's flame retardancy – it is 5 tiers high and was originally designed to replicate a rolled-up newspaper which has caught fire. Whilst newspapers may not be left on seats as frequently as they were as when the test was first established in 1982, the Crib 5 test has remained the barometer for flammability in hospitality, hospitals, and public buildings. In order for a fabric to be used in these spaces, it must achieve the Crib 5 Medium Hazard certification.

How is the Crib 5 test performed?

A standard test rig is constructed from fabric and foam to form a simulated chair. The Crib 5, which when lit is 16 times more intense than a match, is positioned on the test rig. The crib has a piece of alcohol-soaked lint at its base which is set on fire. For a pass to be recorded, all flaming should cease within 10 minutes and the foam must not have burnt through its full thickness.

The Crib 5 test is one part of the Medium Hazard flammability certification, which also encompasses the cigarette and match tests, as explained below:

	BS 7176 Low Hazard	**BS 7176 Medium Hazard**
Requirements	Ignition Source 1: EN 1021-1 (cigarette) Ignition Source 2: EN 1021-2 (match)	Ignition Source 1: EN 1021-1 (cigarette) Ignition Source 2: EN 1021-2 (match) Ignition Source 5: BS 5852 (Crib 5)
Typical End-use areas	Offices, schools, colleges, universities, museums, exhibitions, day centres	Hotel bedrooms, public buildings, restaurants, public halls, pubs, bars, casinos, hospitals, hostels.

Polyester and wool fabrics: How they burn

Natural and synthetic fibres burn in very different ways, and this impacts upon their resistance to fire. Inherently flame retardant, wool will form a char layer on its surface when set alight, which blocks a certain intensity of flame and prevents it from spreading to the foam underneath. In contrast, without an FR treatment, polyester fibres will shrink away from the heat, exposing the foam straight away.

Camira EnviroFlam5 has been certified for use with both wool and polyester fabrics, enhancing the inherent flame retardance of natural textiles, and enabling synthetic fabrics to resist flames much more effectively.

Camira EnviroFlam5: How it works

Camira EnviroFlam5 is a knitted cotton textile substrate which is treated with a halogen-free flame-retardant chemical. When affixed to a textile, this non-toxic and future-proof technology helps to eliminate flames and enables the fabric to form a char layer, which prevents the fire reaching the foam beneath.

How it is applied

Camira EnviroFlam5 is applied by lamination - processed at full width, the backing passes over a heated metal roller coated in molten glue and is then presented to the fabric for the two to be pressed together. Ensuring that no damage is caused to the fabric's fibres, the lamination process guarantees an incredibly robust finish, and, as a result of its lightweight, knitted cotton substrate, the backing is soft, supple and doesn't alter a textile's handle – adding just 150gsm in weight.

MOQs and leadtimes

Camira EnviroFlam5 has a minimum order quantity of 10 metres and a two-week leadtime. For the full range of products on which it is available, contact your Camira representative.

Environmentally friendly

Developed to provide commercial level flame retardancy, without using chemicals and chemistries which cause harm to the environment, Camira EnviroFlam5 has been carefully designed to ensure it is an FR backing which guarantees safety, without compromising on sustainability.

The underlying chemicals used in Camira EnviroFlam5 are compliant with EU REACH (Registration, Evaluation, Authorisation & Restriction of Chemicals), listed on OEKO-TEX®'s approved active chemical products (ACPs), and achieve the ECO PASSPORT by OEKO-TEX® – a multistep process in which each individual ingredient in the chemical product is analysed to ensure it meets the statutory requirements and that it is not harmful to human health.

With a natural knitted cotton backing, rather than synthetic based coatings and polymers, Camira EnviroFlam5 is the responsible, eco-friendly FR choice.

Halogen free

As traditional halogenated FR treatments are not favoured in all geographic areas, with some chemistries already banned or under review by REACH, each chemical used within Camira EnviroFlam5 has been selected according to its non-toxic nature and environmentally safe profile, and contains:

- No bromine
- No antimony
- No organophosphate
- No chlorine
- No fluorocarbon
- No bio-accumulative chemicals

Camira EnviroFlam5 is also:

- Non carcinogenic
- Non disrupting to the reproductive system

Safely processed to reduce any harmful impact of production to people and the environment, Camira EnviroFlam5 offers the ultimate in both green credentials, and fire retardancy.

www.camirafabrics.com