



Birla Cellulose
Fibres from nature



ADITYA BIRLA
CELLULOSIC
FIBRES



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Fibres from nature

SaFRTM

FLAME RETARDANT FIBRES



CELLULOSIC FIBRES FROM NATURE

SaFR™ fibre Flame Retardant Fibres

SaFR™ fibre is a sustainably produced inherently flame - retardant Viscose fibre. This fibre is 100% plant based, made from wood pulp, sourced from FSC certified forests and manufactured in plants that adhere to highest globally accepted environmental norm.



Benefits



Flame Retardant



Breathable



Skin Friendly



Moisture Management
providing comfort

Fibre Portfolio

2.0x51mm*

1.5Dx51mm*

1.5Dx38mm*

*Available on demand

Fibre Properties (Applicable to some available variants)

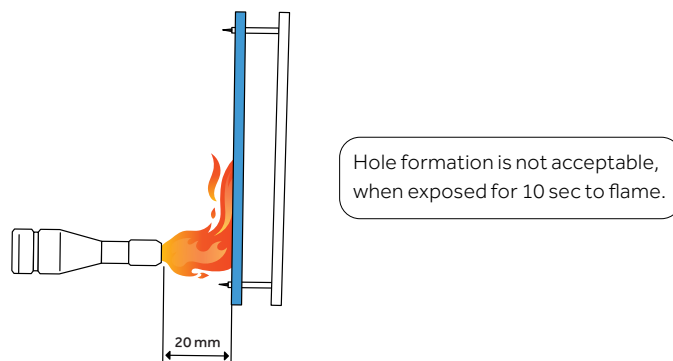
| Denier | Tenacity | Elongation |
|----------|----------|------------|
| 1.8-2.0 | >2.8 | >13 |
| 1.42-1.6 | >2.8 | >13 |

SaFR™ fibre properties are equivalent to viscose fibres.

Standard 100 OEKO-TEX - **SaFR™** fibre is OEKOTEX certified and listed on ACP.

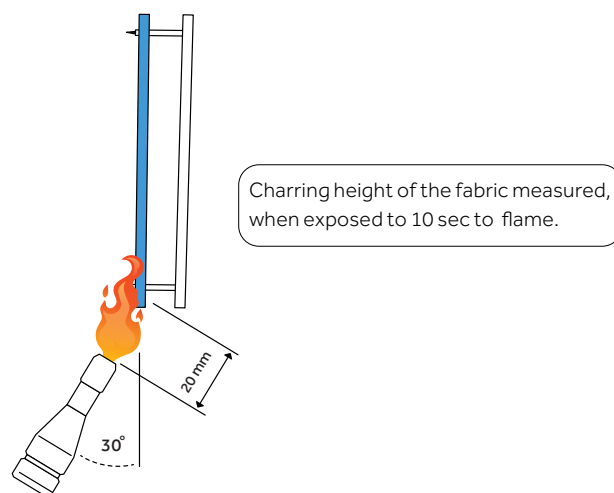
Fabric blend of **SaFR™** fibre with Meta Aramid in a ratio 50:50 with **150 GSM Woven fabric** passes flammability test as per **ISO 15025:2000**.

Surface ignition test - Flame applied to the surface of the fabric.



SaFR™ fibre pass the surface ignition test as **NO hole formed** in the **SaFR™** fibre (As per standard procedure, the hole size should be less than 5mm) compared to the other cellulosic fibres.

Bottom edge ignition test - Flame applied to the bottom edge of vertically oriented specimens.




The **SaFR™** fibre had shorter char lengths (35–40 mm) compared to other cellulosic FR fabrics (120mm-160mm).

The flame retardant **SaFR™** fibre can be blended with other high-performance fibres to produce unique protective clothing solutions for a variety of industrial applications where it does not compromise on the product performance of protection against fire and at the same time provides breathability and comfort preventing heat stress.

SaFR™ fibre have Flame retardant properties (LOI > 28.0) and finds its application in fire suits, protective uniforms, and technical textiles.

Fabrics and garments crafted with these fibres are **soft, comfortable, and breathable**. As it is **100% plant based** and made from wood pulp this fibre provides good moisture management, which reduces the risk of a heat stroke.



Our commitment to the environment and to our customers has always been strong. Today, the alignment of values between them is what drives us to bring new and better products to our industry. With our global presence throughout the entire value chain- from plantation to pulp, to fibre and to fashion - we, through our business development platforms, facilitate our value chain partners (spinners, weavers, processors and garmentors) to build business bridges across geographies.



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