

# FR Fabrics & Fibers

## A Quick Guide

### FR Treated Fabrics

FR Treated Fabrics are flame resistant as a result of a chemical treatment applied to the fabric, as opposed to inherent FR fabrics, which are flame resistant due to the properties of the materials from which they are manufactured.

FR Treated Fabrics are often more affordable and more comfortable.

[Click here to learn more.](#)

### Inherent FR Fabrics

Inherent FR Fabrics are any fabrics produced with fibers that hold intrinsic fire retardant properties. These properties are never worn down or washed out as they are inherent to the raw material of which the fabric is made.

Inherent FR Fabrics are more durable than FR Treated Fabrics.

[Click here to learn more.](#)

### Inherent FR Fibers

Inherent FR Fibers give fabrics increased durability and long-lasting protection due to their intrinsic fire-resistant properties. The FR properties of a garment made with a fabric composed of Inherent FR Fibers will never wash or wear out.

While many polymeric fibers are inherently fire resistant, modacrylic and aramid fibers are the most popular choices for FR fabrics.

[Click here to learn more.](#)

### Modacrylic Fibers

Modacrylic synthetic fibers are soft, strong, and resilient, making them an excellent choice for protective clothing and technical FR fabrics.

The lightweight durability, intrinsic flame-resistant properties, and blending possibilities of modacrylic fibers make them an affordable option in PPE garment selection.

[Click here to learn more.](#)

### Aramid Fibers

Aramids offer excellent protection against flashover and chemical splashes. Since they possess a low molecular weight, FR fabrics made up of aramid fibers allow for more comfort without compromising on safety.

Common heat-resistant synthetic fibers that fall under the aramids category are Kevlar(R), Nomex (R), Twaron(R), and Kermel(R).

[Click here to learn more.](#)