3M™ Thinsulate™ Flame Resistant Insulation (Type FR) incorporates inherently flame-resistant fibers. It’s specifically developed to provide warmth for garments that are designed for momentary exposure to unplanned or accidental flames, heat, or electric arcs.

**Features**

- 55% Modacrylic / 30% Aramid / 15% Polyester
- Mid-loft
- Easy to work in
- Durable for home and industrial washing
- 2.0-3.0 Clo value

**Ideal for**

- Workwear designed for electrical, oil, and gas-based work environments.
- Gear that may be exposed to momentary flames, heat, or electrical arcs. (Not for use in protective apparel for proximity firefighting, wildland firefighting, structural firefighting, fire entry, technical rescue, or other firefighting operations.)

**Intended uses:** 3M™ Thinsulate™ Flame-Resistant Insulation (Type FR) is strictly a component rather than an end article. Garment manufacturers need to conduct their own testing on full finished garments to determine whether the garments meet any particular standard. It is only intended for use in apparel when in conjunction with applicable flame-resistant shell and liner materials. Not for use in garments intended for certification to EN ISO 11612. Refer to the Technical Data Sheet for proper construction requirements.
When you choose 3M™ Thinsulate™ Insulation, you’re choosing a world-renowned product paired with worldwide service. Partner with us and discover the power of our:

**global locations**

With a **local presence in more than 70 countries**, we can easily work with you and your mill, supporting your production needs from start to finish.

**technical expertise**

As a company driven by science, we can perform **more than 20 comprehensive tests on our insulation**, carefully evaluating all critical features such as compression, thermal resistance, water absorption, and more.

**brand**

Recognized as a world-class brand, we’ll work with you to support your marketing and sales efforts.

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**Typical Values***

<table>
<thead>
<tr>
<th>Product Designation</th>
<th>Base Weight g/m²</th>
<th>Thickness ASTM D 5736 @0.002 psi cm</th>
<th>Thermal Resistance (Rₜₜ) ASTM F 1868 R-value m²*K/W inch</th>
<th>Roll Width m Lin. Yard Lin. Meter</th>
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</thead>
<tbody>
<tr>
<td>FR 120</td>
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<td>3.5 1.00 0.40 2.0 1.8 0.31</td>
<td>60 1.52 55 50</td>
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<td>60 1.52 45 41</td>
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<tr>
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<td>200</td>
<td>5.9 1.55 0.61 3.0 2.6 0.46</td>
<td>60 1.52 35 32</td>
<td></td>
</tr>
</tbody>
</table>

*Values represent the averages of the population of lots at date of publication.

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**Want more protection from the elements?** Ask us about the Scotchgard™ Protector that can further enhance the performance needs of your apparel.

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