



3M™ Thinsulate™ Insulation **Stretch** (Type FX)

The finest in flexibility, this breathable, moisture-resistant insulation is specially designed to expand and contract in four directions, thereby helping secure warmth and comfort in any position.

features

- Four-directional stretch up to 40%
- 0.6-0.9 Clo value
- 65% Fine elastomeric olefin/35% polyester



Four-way
stretch



Breathable



Moisture
resistant



Warm

ideal for

- Performance apparel
- Outerwear
- Gloves
- Accessories

certification

partner benefits

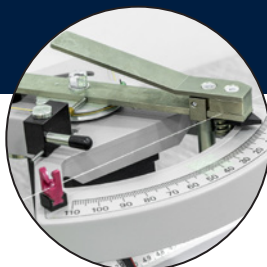
When you choose 3M™ Thinsulate™ Insulation, you're choosing a world-renowned product paired with worldwide service. Partner with us and discover the power of our:

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**.

Typical Values*	3M™ Thinsulate™ Insulation (Types FX)										
	Base Weight		Thickness ASTM D 5736 @0.002 psi		Thermal Resistance (R _c) ASTM F 1868			Roll Width		Roll Length	
	g/m ²	oz/yd ²	cm	inch	clo	R-value	m ² °K/W	inch	m	Lin. Yard	Lin. Meter
FX40	43	1.3	0.32	0.12	0.6	0.5	0.09	60	1.52	350	320
FX70	74	2.2	0.50	0.20	0.8	0.7	0.12	60	1.52	200	183
FX100	105	3.1	0.55	0.22	0.9	0.8	0.14	60	1.52	140	128

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



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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