



ISPO Top of Innovation Award

Breakthrough Innovations in Thermal Insulation!

Date issued: 2021-01-09

Applications (Typical)

Apparel, Footwear, Gloves, Sleeping bags, Blankets, etc., requiring high loft / thermal efficiency in light weight

Fiber Composition

100% Polyester

Flammability

Class 1, Normal according to US Federal Flammable

Performance Features

Highest level of thermal efficiency per weight (Proprietary **LRTD (Long Range Thermal Dynamics) Technology**)

Proprietary **NMF™ Technology** for sustainability

Resistance to cold air and warm air retention

Light weight / Water repellent / Moisture Management

Warm even when damp

Easy maintenance (Home wash, etc)



Technical Data (Typical Values)

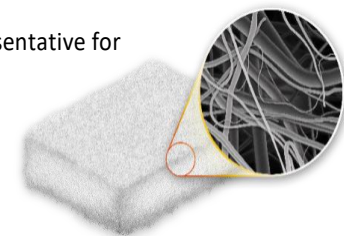
Product Code	Basis Weight (gsm)	Roll Width (in/cm)	Thickness		CLO	TOG
			Inch	cm		
HMX-L80	80	60/152	0.39 ~ 0.51	1.0 ~ 1.3	2.2 ~ 2.5	3.4 ~ 3.9
HMX-L100	100	60/152	0.55 ~ 0.67	1.4 ~ 1.7	2.9 ~ 3.2	4.5 ~ 5.0
HMX-L150	150	60/152	0.71 ~ 0.83	1.8 ~ 2.1	3.3 ~ 3.8	5.1 ~ 5.9
HMX-L200	200	60/152	1.38 ~ 1.54	3.5 ~ 3.9	4.0 ~ 4.4	6.2 ~ 6.8
HMX-L250	250	60/152	1.81 ~ 1.92	4.6 ~ 4.9	6.0 ~ 6.5	9.3 ~ 10.1
HMX-L300	300	60/152	2.01 ~ 2.17	5.1 ~ 5.5	7.2 ~ 8.0	11.2 ~ 12.4

* All data presented above may vary. Contact your sales representative for more details.

** Other weight products, e.g., 80gsm- or 300gsm+ available up on request. Ask your sales representative for more details

TEST METHODS:

Thickness: ASTM D 5736 @ 0.002 psi CLO: ISO11092:2014



Construction Guidelines

HEAT-MX Insulation products may be free-hung in edge-stabilized construction not exceeding 22"x22". Quilting and/or adhesive lamination methods may be used for as needed. For any use of the products outside conventional construction methods and/or in combination of unusual material practiced and recognized by the industry in large, please consult the sales representative of HEAT-MX(TM) Products in your region. **Avoid high temperature or high pressure in order to attain optimum performance.**

Care Instructions

Garments made with HEAT-MX insulation material may be home laundered and/or dry cleaned. Follow care instructions provided by the manufacturer or brand of the finished goods.

JUST FEEL IT!



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Product Usage Guidelines*

Garment examples



Vest



Packable & Light weight



Parka



Ski



Ski pants

Glove examples

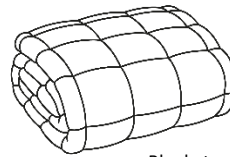


Ski



Work

Others



Blankets



Sleeping bags

Exceptional Performance Features & Social / Environmental Benefits



* Product Usage Guidelines are based on entire area applications of HEAT-MX™ products unless otherwise expressed as per Footwear examples, but may vary depending on specific applications. Contact your sales representative for the approval in case of exceptions from the application methods indicated in this document.

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