

# HEAVY APPAREL APPLICATION

**Breakthrough Innovations in Thermal Insulation!**

Date issued: 2021-01-11

## OVERVIEW

Information presented in this document contains the HEAT-MX technology platforms in thermal insulation technologies used for HEAVY apparel applications.

## HEAT-MX™ TECHNOLOGY PLATFORMS FOR HEAVY APPAREL



### ISPO TOP OF INNOVATION AWARD – TOP TEN WINNER

Proprietary Internal Structure<sup>1</sup>  
Polyester & Polypropylene  
Does not use down-feather  
Cruelty-free



### ISPO TOP OF INNOVATION AWARD WINNER

Proprietary Internal Structure<sup>1</sup>  
Polyester & Polypropylene  
Uses down-feather as filler



# LOFT-MX



### ISPO TOP OF INNOVATION AWARD WINNER

Sheet-type Non-woven  
100% Polyester  
Cruelty-free



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## HEAT-MX™ TECHNOLOGY PLATFORMS FOR HEAVY APPAREL (CONTINUES)



ISPO TOP OF INNOVATION AWARD – **TOP TEN** WINNER

- Loose-fiber type
- 100% Polyester
- Cruelty-free



### FR-MX

Based on the same technology platform as  
**ISPO TOP OF INNOVATION AWARD WINNER**

- Sheet-type Non-woven
- 100% Polyester
- Cruelty-free



## TEMPERATURE RANGES

The technology platforms presented in this document can cover all four HEAT-MX™ temperature rating categories shown below:



**COLD**

(0°C~-20°C/32°~-5°F)



**VERY COLD**

(-20°C~-40°C/-5°~-40°F)



**EXTREME COLD**

(-40°C~-60°C/-40°~-75°F)



**EXPEDITION**



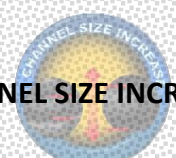





(-60°C~-100°C/-75°~-150°F)

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## TECHNICAL FEATURES<sup>2</sup>

	LOFT-MX	VEGANDOWN-MX	FR-MX	nDown™ THE BRG TECHNOLOGY	iDown™ THE BRG TECHNOLOGY
 <b>4-WAY STRETCH</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 <b>ABRASION RESISTANCE</b>	<input type="checkbox"/>	NA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
 <b>CHANNEL SIZE INCREASE</b>	NA	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
 <b>CLUSTER-RELIEF</b>	NA	<input type="checkbox"/>	NA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
 <b>COLD-SPOT-RELIEF</b>	NA	<input type="checkbox"/>	NA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
 <b>DOWN-PROOF / FIBER-PROOF</b>	NA	NA	NA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
 <b>DRI-CAVE™</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
 <b>FLAME RETARDANT</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2- Please refer to [www.heat-mx.com](http://www.heat-mx.com) for more technical details

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## TECHNICAL FEATURES<sup>2</sup> (CONTINUES)

	LOFT-MX	VEGANDOWN-MX	FR-MX	nDown <sup>®</sup> THE BRG TECHNOLOGY	iDown <sup>®</sup> THE BRG TECHNOLOGY
 <p>HIGH VOLUME</p>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
 <p>LONG RANGE THERMAL DYNAMICS</p>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
 <p>MOISTURE MANAGEMENT</p>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
 <p>ODOR RESISTANT</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
 <p>SWEAT RESISTANT</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
 <p>WARM EVEN IN WET WEATHER</p>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
 <p>WATER REPELLENT</p>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
 <p>WATER RESISTANCE</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
 <p>WIND PROOF</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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## SOCIAL / ENVIRONMENTAL BENEFITS<sup>1</sup>

	LOFT-MX	VEGANDOWN-MX	FR-MX	nDown™ THE BRG TECHNOLOGY	iDown™ THE BRG TECHNOLOGY
 CHEMICAL-FREE PERFORMANCE FEATURES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
 CLEAN RECYCLING INITIATIVE™	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> *	<input checked="" type="checkbox"/> *
 CLEANLY RECYCLABLE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> *	<input type="checkbox"/>
 CLEANLY RECYCLED or RECYCLED*	<input checked="" type="checkbox"/> *	<input checked="" type="checkbox"/> *	<input type="checkbox"/>	<input checked="" type="checkbox"/> *	<input checked="" type="checkbox"/> *
 ENERGY SAVING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
 HOME LAUNDRY / NO-DRY-CLEANING	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
 NMF™ TECHNOLOGY	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
 SUSTAINABLE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

\* (IMPORTANT) Product-code-specific. Please ask your HEAT-MX™ sales representative for more details.

1- Please refer to [www.heat-mx.com](http://www.heat-mx.com) for more technical details

Notes – Information presented in this document may change without notice. Please contact your HEAT-MX™ sales representative for complete and updated information.

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Replaces all previous documents issued under the same purpose