

SLEEPING BAG APPLICATION

Breakthrough Innovations in Thermal Insulation!

Date issued: 2021-01-11

OVERVIEW

This Technical Data Sheet (TDS) presents the HEAT-MX technology platforms in thermal insulation technologies used for SLEEPING BAG Applications.

APPLICATION CATEGORIES & HEAT-MX™ TECHNOLOGY PLATFORMS

Temperature ranges¹

COLD (0°C ~ -20°C / 32°F ~ -5°F) ~ VERY COLD (-20°C ~ -40°C / -5°F ~ -40°F)¹

HEAT-MX™ Technology Options for the category



ISPO TOP OF INNOVATION AWARD – TOP TEN WINNER

Proprietary Internal Structure¹
Polyester & Polypropylene
Does not use down-feather
Cruelty-free



iDown™
THE BAG TECHNOLOGY



ISPO TOP OF INNOVATION AWARD WINNER

Proprietary Internal Structure¹
Polyester & Polypropylene
Uses down-feather as filler



LOFT-MX



ISPO TOP OF INNOVATION AWARD WINNER

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



1 - Patent-pending

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VEGAN DOWN-MX



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



EXTREME COLD (-40°C ~ -60°C / -40°F ~ -75°F) ~ EXPEDITION (-60°C ~ -100°C / -75°F ~ -150°F)¹

HEAT-MX™ Technology Options for the category



ISPO TOP OF INNOVATION AWARD – TOP TEN WINNER

- Proprietary Internal Structure¹
- Polyester & Polypropylene
- Does not use down-feather
- Cruelty-free



ISPO TOP OF INNOVATION AWARD WINNER

- Proprietary Internal Structure¹
- Polyester & Polypropylene
- Uses down-feather as filler



¹ - Temperature ranges based on the categories of T-comfort, T-limit and T-extreme according to ISO 23537. Please ask your HEAT-MX™ sales representative for more details.

² - Patent-pending

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TECHNICAL FEATURES²

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

2- Please refer to www.heat-mx.com for more technical details

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TECHNICAL FEATURES² (CONTINUES)

	LOFT-MX	VEGAN DOWN-MX	FR-MX	nDown TM THE BRG TECHNOLOGY	iDown TM 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"/>

2- Please refer to www.heat-mx.com for more technical details

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SOCIAL / ENVIRONMENTAL BENEFITS¹

	LOFT-MX	VEGAN-DOWN-MX	FR-MX	nDown™ THE BAG TECHNOLOGY	iDown™ THE BAG 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 LAUDRY / 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 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