MARRYDUGKS **ISPO Top of Innovation Award – TOP TEN**

Cruelty Free, Perfect Down-Feather Replacement Technology

Breakthrough Innovations in Thermal Insulation

APPLICATIONS (TYPICAL)

Apparel, Glove, Home textile products, (Comforters, Pillows, etc.), Sleeping bags, etc.

FIBER COMPOSITION

Component 1 - nDown[™] non-woven fabric 100% Polypropylene

Component 2 - HEAT-MX[™] Filling Material

100% Polyester

FLAMMABILITY

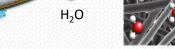
Class 1, Normal according to US Federal Flammable Fabrics Act Procedure in 16 CFR Part 1610.

TECHNOLOGY DESCRIPTIONS

Patent-pending nDown[™] Technology

Innovative Water Molecular Adsorption Process

(Eco-friendly & Permanent performance technology)



Proprietary structural example of nDown™

in comparison with Regular synthetic fill



CONSTRUCTION GUIDELINES

nDown™ Technology consists of HEAT-MX™ products designed and engineered with HEAT-MX™ proprietary technologies. Air pressure from down/feather blowing machine must not create the reconstruction of the fiber structures of the nDownTM products. Product grades of nDown™ may differ based on the construction methods of the types of finished goods. Please consult with your sales representative for specific instructions of nDown[™] product grades as well as DOs and DON'Ts of applying nDown[™] into your products. Manufacturing methods as well as product grades of nDown[™] proposed by HEAT-MX[™] are to be strictly adhered to and incorporated in the cut-and-sew manufacturing processes. Licensing agreement may be required to use the nDown™ Technology. Please contact your sales representative for more details. Avoid high temperature or high pressure in the course of manufacturing to attain optimum performance.

CARE INSTRUCTIONS

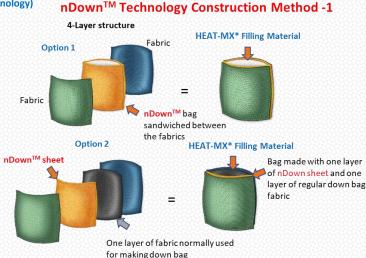
Consumer products made with the nDown™ Technology are to be washed at home with commercially available home laundry detergents. Avoid dry cleaning unless the washing label indicates otherwise. Ensure sufficient drying time in low-temp tumble dry setting for drying moisture inside the goods. Avoid keeping the goods in areas with high humidity.

EXPERIENCE THE EXCELLENCE

PERFORMANCE FEATURES

- Proprietary LRTD[™] (Long Range Thermal Dynamics) Technology for optimum warmth
- Odor control Sustainable technologies
- Down leak proof
- Easy home wash
 - Easy home wash
- Volume increase after wash Windproof & Water resistance
- Warm even when damp
- High rate of water-vapor transmission
- Improved longevity of finished goods
- Down cluster free and improvement in warmth





* HMX-VN, HMX-VNBD3 or HMX-VNRD7 used as filling material

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High level of air permeability

Top Ten





Note - Some performance features are specific to a certain product type (product code) and optional. Please contact your sales representative for more details

* 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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