

THINDOWN®



Modern science and centuries
of use have proven

DOWN IS THE WORLD'S
BEST THERMAL INSULATOR



THINDOWN[®]
INSIDE



PRESENTING
ADVANCED COLD WEATHER PROTECTION

THE FIRST AND ONLY **DOWN FABRIC** IN HISTORY
DELIVERING **UNPRECEDENTED WARMTH** TO -70F AND BEYOND
CAPABLE OF DOWNSIZING ECWCS 7 LAYER TO 4-5 LAYERS
LESS BULK LESS WEIGHT
REDUCES SOLDIER LOAD, BETTER MANEUVERABILITY



REAL DOWN REIMAGINED AS A FABRIC



LIGHT

Light as a feather, fixed into fabric



WARM

Paramount performance
Vastly superior to polyester in current system



BREATHABLE

Natural down loft allows maximum air flow



NO COLD SPOTS

Even distribution of down means consistent warmth



THERMOREGULATOR

Unparalleled heat retention



PREVENTS MIGRATION

Fabric structure eliminates the need for additional seaming and channel quilting, an end to fuzzy leaks and feather clumps



THIN & PACKABLE

Compact, flexible and purpose built without any fluff
Compressible, less bulk



RESPONSIBLE

An ethical and versatile alternative to traditional insulations. Made with traceable and sustainable down, RDS or GRD certified. OEKO-Tex certified for a more transparent future for textiles, our planet and our health.



THINDOWN®



WE KEEP YOU OUTSIDE LONGER - WARMER - SAFER

COLD WEATHER PROTECTION JUST GOT MUCH BETTER

MORE WARMTH – LESS LOAD

ENHANCING SOLDIER EFFECTIVENESS

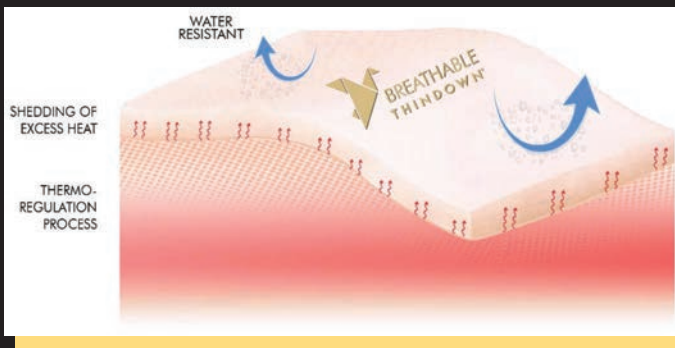
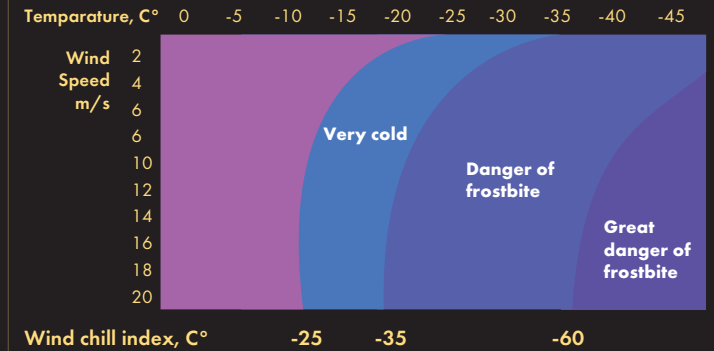
IN EXTREME COLD ENVIRONMENTS



The Thindown® Story The Science Behind Down

- ▶ Down allows the process of thermoregulation to occur. Much as it does in birds, Down clusters can wick away excess heat and help us regulate our body temperature.
- ▶ We traditionally measure warmth in CLO numbers, which describe the insulation value of a particular item of clothing. While CLO numbers are an important indicator of warmth, it doesn't tell the whole story.
- ▶ Capturing and retaining body heat is the most unique function of down clusters. This is critical in helping us prevent heat loss and hypothermia.

WIND CHILL



- ▶ We are now better able to counteract the effects of severe cold and deal with the impacts of windchill.
- ▶ Thindown® can help to reimagine and perhaps reengineer cold weather protection and the layering system we create to trap air.
- ▶ A continuous flow of down plumes is the best air trap ever created. We can now also improve on nature's creation by calibrating the fabric to any thickness of down to suit any weather conditions to -70° F and beyond.



The Thindown® Story Early Applications

- ▶ Thindown® is already in use in the luxury fashion and outdoor market as an insulation of choice by notable blue-chip brands including Armani, Brunello Cucinelli, Marella, Kanuk, Eddie Bauer, and Helly Hansen.
- ▶ While Thindown can play a role in fashion and outdoor recreational activities, it is most effective in cold environments where nearby shelter is not always available. Extended periods of time in harsh conditions can be incapacitating, can impede one's ability to think and act, and can even be lifethreatening. Under these circumstances, Thindown can deliver an improved level of comfort and safety.
- ▶ In addition to providing extreme cold weather protection, it is extremely light in weight and can highly compress and unfold in an instant, offering a greater degree of maneuverability and agility on long hikes and expeditions.





The Thindown® Story Cuttable Thindown®



- ▶ Cuttable Thindown®-now user friendly with many possibilities
 - Garment mapping
 - Individualized warmth zones
 - Adjustable & interchangeable warmth panels



- ▶ Compression, breathability, light weight, and warmth allow for new applications in:
 - Footwear, headgear, gloves
 - New engineered jackets
 - Sleeping systems
 - Etc...

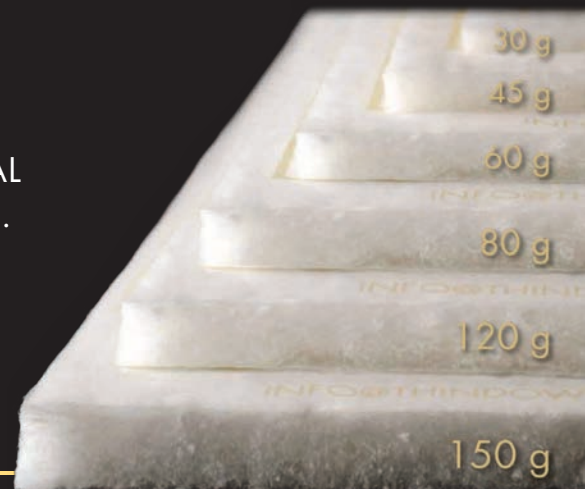
Down Completely Reimagined

OUR PATENTED TECHNOLOGY DELIVERS ALL THE NATURAL BENEFITS OF DOWN IN THE THINNEST POSSIBLE PROFILE.

REAL DOWN FABRIC GOOSE OR DUCK

85% REAL DOWN

15% PET/PE



Royal Canadian Mounted Police - RCMP

- ▶ The Royal Canadian Mounted Police placed its first Thindown® order in February 2021.
- ▶ The force has a legendary role in law enforcement across Canada, especially in the High Arctic.
- ▶ Following two years of testing, Thindown® met and exceeded the RCMP's rigorous standards and was adopted as the insulation of choice for the next generation of winter clothing across Canada.
- ▶ Thindown® insulation allows for production of protective apparel appropriate for all weather fluctuations and offering greater versatility.
- ▶ Work is underway to promote the adoption of Thindown® for gloves, footwear, headgear, and more with the RCMP and other services.





PROFESSIONALLY PROVEN IN THE FIELD
NATURAL INSULATION PRODUCTS INC (NIPI)



RIGOROUSLY PROVEN IN

HIMALAYAS & ANTARCTICA
DOD NATICK TESTED & VALIDATED
THINDOWN® IS TRADEMARKED & PATENTED

NEW LOOK OF THE DOWN,
THINDOWN.

HIMALAYAS



ANTARCTICA



A NEW DIMENSION IN
WARMTH AND COMFORT
EXPLORE THE POSSIBILITIES
WITH OUR ADVANCED COLD
WEATHER **PROTECTION SYSTEM**



APPLICATIONS

JACKETS / PANTS / OVERALLS

FOOTWEAR

MITTS & GLOVES

HEADGEAR

PONCHOS

SLEEPING BAGS

BLANKETS

TENTS / SHELTERS

THINDOWN® / NIPI, Inc.

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Down: Master Sailor Dan Bard, Canadian Forces Combat Camera, Canadian Armed Forces Photo
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