Product Knowledge Document
Fall 2021

OUTDOOR RESEARCH

The name Outdoor Research is inspired by the constant search for adventure. The mission is to bring innovation and inspiration to the adventurers.

Whenever founder Ron Gregg went out on expeditions, he always told his wife« *I'm going to do some outdoor research!* »

Ron Gregg was a nuclear physicist and mountaineer who quit his scientific career in 1980 to join an expedition to North America's highest peak, Denali. Gregg's climbing partner suffered from frozen feet and was evacuated by helicopter. This event inspired and challenged Gregg to find a solution to cold, wet and exposed feet in a precarious mountain environment.

Gregg founded Outdoor Research the following year, in 1981, and created the company's first product: **the X-Gaiter**, a gaiter. OR explored new territory in 1993 with the production of clothing, a pair of softshell pants inspired by the ascent of Aconcagua by Ron Gregg, the highest mountain in South America.

OUTDOOR RESEARCH

In 2003 Ron Gregg died in an avalanche in British Columbia by doing what it did best, testing his products.

That same year, **Dan Nordstrom** purchased the company with the intention of maintaining the reputation of the OR company.

In 2014, the world's leading manufacturer of outdoor and sportswear **YoungOne Corporation** invested in action in Outdoor Research. YoungOne is a South Korean manufacturer who cares deeply about detail.

Founded in 1974, Youngone Corporation is one of **the world's leading manufacturers of outdoor, athletic clothing, textiles, footwear and athletic equipment** built with a history of innovation.

Technologies – The membranes

Exclusive to OR, ASCENTSHELL is a membrane with a **3-layer** construction. It is created from an **electrospinning** process where polymer threads come together to form a waterproof-breathable membrane. Under a microscope, we can see that the wires form a canvas allowing the steam to exit but which prevents water from entering.
This process allows the fabric to be **soft to the touch** while being of great **mechanical elasticity**.

VENTIA

VENTIA is a **2.5 layer membrane** having 2 layers laminated together with an additional thin layer which is vaporized.
Its construction ensures that the external humidity does not penetrate the tissue and the body vapor to escape. It provides a tight barrier against rain, snow and wind.

VENTIA is always combined with all sealed seams, thus offering complete protection.

GORE-TEX

GORE-TEX® is a **waterproof membrane** that can be combined with a fabric. This membrane is an extremely thin layer of **polytetrafluoroethylene** which gathers more than 9 billion pores per square inch.

These pores are the strength of GORE-TEX® fabrics, allowing them to be waterproof, flexible, breathable and windproof.

PERTEX® SHIELD

Pertex Shield fabrics provide waterproof, lightweight and highly breathable protection.

Its **versatile construction**, in **2, 2.5 or 3 layers**, combines light fabrics with waterproof, windproof and breathable membranes.
A durable water repellent finish (DWR) applied to the outer fabric makes the water droplets pearl.

Technologies - ????

ActiveIce is a technology that is constructed using a fabric made from 100% recycled polyester. It actively lowers skin temperature and provides UPF 50 sun protection.

Collection Echo

ActiveFresh is a technology that eliminates bad smells with a lasting freshness and that does not compromise the breathability or the softness of the fabric.

It is an environmentally friendly technology because it is made from recycled materials which inhibits environmental or body odors, thus preventing the accumulation of bacteria which causes bad odors during physical exertion.

The light and ultra-fine threads used in **AirVent** fabrics use a weaving concept allowing incredible air flow and breathability after a demanding effort.

Wicking AirVent pieces wick sweat away from the skin for exceptional moisture management that dries quickly without sacrificing durability.

Technologies – Insulators

Down, unlike feathers, is made up of several filaments that go in all directions. So it's larger and traps more air.

When the down is wet, it completely loses its thermal capacity. In fact, the warmth that the down keeps, comes from the air pockets it creates, and the down sinks when wet so it loses its effectiveness. This insulation is therefore to be avoided if you find yourself in extremely humid climates.

To insulate its products with down, OR makes sure to follow an ethical way to choose suppliers with Responsible Down Standard (RDS).

VerticalX^{tm} ECO is a high-resistance synthetic insulation that combines lightness and breathability.

Mainly made of more or less thick polyester fibers, the insulation is arranged so as to form small pockets which trap air and retain heat. The best thing about synthetic insulation is that it retains heat, even when wet.

Primaloft is a frequently used insulation that comes in several categories. OR mainly uses **Primaloft Gold** which is the best performing and offers protection in the most extreme conditions. OR mainly uses it in its accessories, such as gloves.

This insulation is to be considered for the practice of intense physical activities during which the body will produce moisture.

Product categories

Men’s clothing

Women’s clothing

Hats

Solar protection

Gaiters

Storage

Gloves

Shelter

Footwear

New products - Snowsports

Men’s Skytour Jacket

Women’s Skytour Jacket

Women’s Skytour Bib

Skytour Ascentshell Collection
Men’s and women’s jackets and bibs

Technology: AscentShell 3L (details on p.4)

Jacket Features :
- Snowsports Helmet-Compatible Halo Hood
- Wire Brim and Hood Lock
- Brushed Tricot Chin Guard
- Pit Zips
- Interior Zip Chest Pocket with Media Port
- Large Internal Mesh Stash Pocket
- YKK® Vislon Aquaguard® Double Separating Center
- Adjustable Wrist Cuffs
- Elastic Drawcord Hem

Bib Features :
- Hybrid Mapped Construction: Softshell Bib Upper
- Adjustable Suspenders
- Full Center Front Zip
- Left Side Zip Bib Pocket with Secure Avalanche Beacon Clip
- Right-Side Top-Entry Stash Bib Pocket
- Zippered Outer Thigh Vents
- Stretch Mesh Internal Gaiter with Power Strap Slot
- Reinforced Scuff Guard
- Articulated Knees
- Swing Hatch for Answering Nature's Call

Context of use :
The Skytour Collection is built for lighter and faster human-powered adventures, with backcountry-ready features.

New products - Snowsports

Men’s MT Baker Storm Jacket

Women’s MT Baker Storm Jacket

Men’s MT Baker Storm Bib

MT Baker Storm Collection
Men’s and women’s jackets & bibs

Technology :
- GORE-TEX 2L 100% polyester 70D

Jacket Features :
- Snowsports Helmet-Compatible Halo Hood
- Wire Brim and Hood Lock
- Pit Zips
- Powder Skirt
- Insulated Chest Pocket for Phone Battery Life
- Interior Zip Chest Pocket with Media Port
- Large Internal Mesh Stash Pocket
- YKK® Vislon Double Separating Center Front Zipper
- Adjustable Wrist Cuffs
- Elastic Drawcord Hem

Bib Features :
- Hybrid Mapped Construction: Softshell Bib Upper
- Adjustable Suspenders with Quick Release Buckles
- Lightly Insulated Seat Area
- Center Front Zip from Top of Bib to Fly
- Avalanche Beacon Pocket with Secure Clip in Right Hand
- Zippered Inner Thigh Vents
- Stretch Mesh Internal Gaiter with Power Strap Slot
- Reinforced Scuff Guard
- Swing Hatch for Answering Nature's Call

Context of use :
Engineered for maximum protection with performance-driven features, these 2L GORE-TEX bibs are built to last.

New products - Snowsports

Men's Snowcrew Jacket

Women's Snewcrew Jacket

Women's Snowcrew Pants

Snowcrew Collection
Men's and women's jackets and pants

Technologie :
- Ventia 2L 100% polyester
- VerticalX ECO insulation

Men: 80 G/M2 body, 60 G/M2 sleeves and hood
Women: 100 G/M2 body, 80 G/M2 sleeves and hood

Anorak Features:
- Snowsports Helmet-Compatible Halo Hood
- Wire Brim and Hood Lock
- Pit Zips
- Powder Skirt
- Adjustable Wrist Cuffs with Internal Knit Gaiter
- Interior Zip Chest Pocket with Media Port
- Large Internal Mesh Stash Pocket
- YKK® Aquaguard® Double Separating Center Front Zipper
- Elastic Drawcord Hem

Leggings Features:
- Waist Adjustment Tabs
- Belt Loops
- Avalanche Beacon Pocket with Clip in Right Hand Pocket
- Mesh Backed Inner Thigh Vents
- Articulated Knees
- Stretch Mesh Internal Gaiter with Power Strap Slot
- Reinforced Scuff Guard

Context of Use:
Fully seam-taped weatherproof fabric, environmentally-friendly insulation, ski-specific features.

New products – Down Insulation

Men's Coldfront Jacket

Women's Coldfront Jacket

Women's Coldfront Vest

Coldfront Collection
Men's and women's hoodies, jackets and vests

Technologies :
- Pertex® Quantum 100% nylon 30D double ripstop shell
- 700+ Fill Power Responsibly Sourced Down Insulation Main Body
- VerticalX ECO™ 100% Polyester (85% Recyled) Insulation 150 G/M2 Tops Of Shoulders, Wrist Cuffs

Features :
- Adjustable Insulated Hood
- VerticalX ECO™ Insulation on Shoulders and Cuffs Eliminates Cold Spots and Increases Weather Resistance
- Brushed Tricot Lined Hand Pockets
- Interior Drop-In Pockets
- Left Hand Pocket Doubles as Stuff Sack
- Elastic Drawcord Hem™

Context of use :
Coldfront styles are designed with room to layer, making them ideal outer garments. Because of that they will fit larger than Transcendent styles from previous seasons. Please size down if you want a closer-to-body fit.

New products – Down Insulation

Men's Stormcraft Down Parka

Women's Stormcraft Down Parka

Stormcraft down Parka
For men's and women's

Technologies :
- Gore-Tex 2L 100% Polyester 150D Canvas Shell
- 700+ Fill Power Responsibly Sourced Down Insulation

Features :
- High-Coverage Fully Adjustable Insulated Hood with Stealth Front Cordlocks
- Brushed Tricot Chin Guard
- Dual YKK® Aquaguard® Zip "Penguin" Chest Pockets with Sherpa Fleece at Knuckle Side
- Large Snap-Secure Exterior Drop-In
- Interior Zip Chest Pocket
- Large Interior Mesh Stash Pocket
- Internal Knit Wrist Cuff Gaiters
- YKK® Vislon Double Separating Center Front Zipper
- Insulated Snap-Secure Storm Flap
- Elastic Drawcord Hem

Contexte d'utilisation :
Waterproof, windproof, and insulated with tons of 700+ fill power of responsibly sourced down, this GORE-TEX parka is built for cold stormy northern winters. The longer length adds protection, and a roomy relaxed fit makes layering easy.

Best sellers – Men's Clothing

Men's Anorak Ferrosi
86% nylon, 14% spandex 90D stretch woven ripstop, UPF50

Men's Feedback flannel shirt
100% polyester yarn-dyed woven plaid, UPF50

Helium Hooded Jacket
Pertex® Shield with Diamond Fuse Technology 2.5L 100% nylon 30D ripstop waterproof hood / shoulder / upper sleeve, 100% nylon 20D ripstop lining, 800+ fill power, responsibly sourced goose down insulation

Cirque II Pants
50% nylon, 43% polyester, 7% spandex 90D stretch double weave

Cirque Lite Pants
88% nylon, 12% spandex 90D stretch double weave

Best sellers – Women's Clothing

Super Transcendent Down Parka
GORE-TEX INFINIUM with WINDSTOPPER 2L, 100% polyester 50D plain weave upper, 100% recycled polyester 20D ripstop lower and lining, 650 fill power - RDS certified

Trail Mix Snap Pullover
100% Polyester, Thermo-Regulating ActiveTemp™ Treatment, UPF30

Melody Full-zip Hoodie
82% polyester, 18% spandex, Stretch, Thermo-regulating ActiveTemp™ treatment, UPF 30

Cirque II Pants
50% nylon, 43% polyester, 7% spandex 90D stretch double weave

Methow Leggings
92% polyester, 8% spandex upper thighs, seat and side of legs, 88% nylon, 12% spandex, lower thigh and legs

Best sellers - Accessories

Ninjaclava
Fabric: 54% nylon, 41% polyester, 5% spandex brushed face stretch jersey

Tundra Aerogel Balaclava
Face and neck: GORE INFINIUM 3L, 100% Polyester
Neoprene mouthpiece: 54% Nylon, 41% Polyester, 5% Elastane
Crown and back of neck: 63% Nylon, 23% Polyester, 14% Elastane
Nose piece: 1.5mm Primaloft ® Aerogel Insulation nose and cheek bones

Tundra Slip On Aerogel Booties
Shell:100% polyester
Insulation: VerticalX™ 100% polyester (85% recycled)
Insert: PrimaLoft® Aerogel 1.5mm
Soles: 60% polyurethane, 40% polyester
Lining: 100% tricot

Juneau Beanie
100% acrylic

Peruvian Hat
GORE INFINIUM with WINDSTOPPER 3L 100% polyester microfleece

Yukon Cap
Wool and polyester mix, 100% polyester pile lining

Best sellers – Insulated Gloves

Adrenaline Gloves
Fabric: Ventia™ insert
Back of hand: 100% nylon
Insulation: EnduraLoft™ 100% polyester
Lining: 100% polyester tricot
Palm: AlpenGrip® LT

Alti GORE-TEX Mitts
Fabric : GORE-TEX 2.5L 100% nylon, 40D ripstop shell
Palm : Pittards® Armortan® leather
Lining : 100% nylon ripstop
Insulation : PrimaLoft® Gold Insulation 170 g/m2 in shell, 340 g/m2 in liner

MT. Baker Modular GORE-TEX Mitts
Fabric : GORE-TEX 3L, 74% nylon, 26% polyester, 70D shell
Palm : AlpenGrip®
Lining : 100% nylon ripstop with PrimaLoft® Gold
Insulation: 170 g/m2 insulated

Highcamp Gloves, Mitts and 3-finger gloves
Fabric: Ventia™ insert, 100% nylon
Palm: Water Resistant goat leather
Insulation: VerticalX™, 100% polyester
Lining: 100% Polyester Tricot at back of hand + Moonlight Pile Fleece
Liner: Radiant Fleece™ 95% polyester, 5% spandex
+ Touch-Screen synthetic fleece thumb and index fingertip

Stormbound Sensor Mitts
Fabric: Pertex Shield 2L, 100% Polyester
Palm: Water resistant goat leather
Insulation: PrimaLoft® Silver 133g/m² at palm and back of thumb
Lining: 100% Polyester Tricot lining at back of hand,
Liner: Moonlight Pile Fleece 100% polyester with ActiveTemp technology at palm lining. Back of Hand: PrimaLoft® Gold Insulation 100% polyester: 340g/m² back of hand and 133g/m² at wrist cuff, 800+ fill down insulation - Responsibly sourced goose down insulation

Aksel work gloves
Fabric: 100% cowbelly leather – 40% wool,
Lining: 35% acrylic, 25% polyester

Best sellers – Liners

Waterproof Liner
Fabric : Ventia™ insert, 95% Polyester, 5% spandex
Lining : 100% polyester tricot
+ Synthetic Touchscreen suede

Versaliner Sensor Gloves
Fabric: Pertex® Shield 2.5L, 100% nylon 40D stretch ripstop
Lining : 93% polyester, 7% spandex ActiveTemp™ fleece
+ Touchscreen fleece thumb and index fingertip

Vigor Lightweight Sensor Gloves
Fabric : ActiveTemp™ fleece 50g weight 63% nylon, 23% polyester, 14% spandex,
+ Touchscreen fleece thumb and index fingertip

StormTraker Sensor Gloves
Fabric : GORE-TEX INFINIUM™ with WINDSTOPPER soft shell
Face : 94% nylon, 6% spandex
Backer : 100% polyester
Palm : Water Resistant goat leather, Touchscreen Leather,
Lining : 100% Tricot

Best sellers – Altiheat Gloves

Lucent Heated Gloves and Mitts
Fabric : GORE-TEX insert,100% nylon
Palm : 100% Polyester Ripstop, Water Resistant goat leather
Overlay : Water Resistant goat leather, Touchscreen Leather
Insulation : Enduraloft, 100% polyester 333g/m2 at back of hand and 133g/m2 at palm and gauntlet, Moonlite Pile Fleece Palm
Lining : 100% polyester tricot

Storm Tracker Heated gloves
Fabric : GORE-TEX INFINIUM™ insert with WINDSTOPPER soft shell
Face : 94% nylon, 6%
Backer : 100% polyester
Lining : 100% Polyester Tricot
Back of hand : PrimaLoft® 60g/m2
Palm : PrimaLoft® Grip 60g/m2, Water Resistant goat leather, Touchscreen Leather

Best sellers - Guaiters

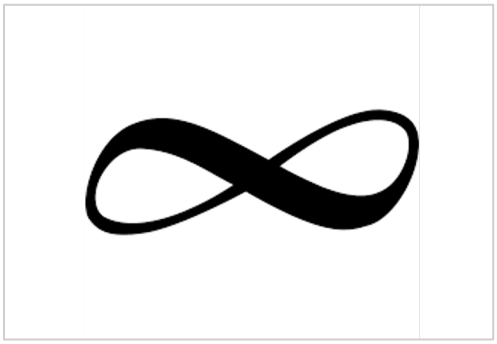
Expedition Crocodiles
GORE-TEX® 3L, 100% Nylon
Durable and lightweight BioThane® instep attachment
Abrasion-resistant Cordura® inner leg and shoe
Durable, high performance

Crocodiles
GORE-TEX® 3L, 100% Nylon
Durable and lightweight BioThane® instep attachment
Abrasion-resistant Cordura® inner leg and shoe

Rocky Mountain hight
100% Nylon
Reinforced shoe lace hook
Abrasion resistant inner leg and shoe

Rocky Mountain Low
100% Nylon
Reinforced shoe lace hook
Abrasion resistant inner leg and shoe

Garanty



Infinite Guarantee: OR products are guaranteed throughout their lifespan. Get your equipment back on track by contacting serviceasm@asmsports.ca .

Your questions

The ASM Sports team is here to answer your questions!

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