



Product Knowledge Document
Spring 2020

OUTDOOR RESEARCH

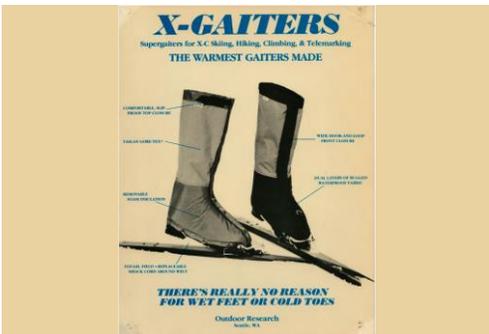
**OUTDOOR
RESEARCH®**

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.



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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.



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Technologies – The membranes



Exclusive to OR, ASCENT SHELL 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 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® 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 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 - ????

The logo for ACTIVE ICE features the word "ACTIVE" in a bold, black, sans-serif font, followed by "ICE" in a blue, sans-serif font with a white outline. A small trademark symbol (TM) is located to the right of "ICE".

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

The logo for ACTIVE FRESH features the word "ACTIVE" in a bold, black, sans-serif font, followed by "FRESH" in a green, sans-serif font with a white outline. A small trademark symbol (TM) is located to the right of "FRESH".

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 logo for AIRVENT features the word "AIRVENT" in a bold, black, sans-serif font. Above the "I" and "R" in "AIR" are several small dots. A small trademark symbol (TM) is located to the right of "VENT".

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.



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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™

VerticalX 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



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New products - Clothing



Microgravity jacket

Technologies : AscentShell 3L

Characteristics :

Halo-Hood with Hood Lock™ compatible with helmet.
YKK® AquaGuard® front zippers
Zipped chest and side pockets

Context of use :

The solution for alpine adventures in crazy weather.
The **Microgravity** jacket offers breathability, stretch and waterproofing via the AscentShell 3-layer (3L) technology. With such breathability and lightness, you will never have to compromise on protection again.



Men's Microgravity jacket



Women's Microgravity jacket

New products - Clothing



Men's Prologue jacket



Women's Prologue jacket



Pantalon Prologue Homme

Prologue jacket

Technologies : Ventia™ 2,5 L

Characteristics :

Adjustable hood
YKK® Aquaguard central front zipper
Adjustable cuffs
Elastic drawstring at hem

Context of use :

Prologue jackets offer reliable waterproof protection for all outdoor activities, but with an urban style.

They are suitable for all weekday trips between home, work and the mountains.

Prologue pants

Characteristics :

Belt loops
Drawstring inside
Pre-formed knees
Crotch yoke
Zips at the ankles

New products - Clothing



Men's Apollo Stretch jacket

Apollo Stretch jacket

Technologies : Ventia™ 2,5 L

Characteristics :

- Adjustable hood
- Ventilation zipper under the arms
- Velcro wrist closure
- Elastic drawstring at hem



Women's Apollo Stretch jacket

Context of use:

The new **Apollo Stretch** jackets offer the flexibility you need, as well as essential waterproof protection for all kinds of precipitation.



Unisex Apollo Stretch pants

Pantalon Apollo Stretch

Characteristics :

- Elastic waist
- Side zippers
- Articulated knees
- Drawstring

Best sellers - Clothing

FORAY collection for men

Waterproof, breathable, and lightweight, the **Foray GORE-TEX®** jacket and pants have won awards for years for their reliable rain protection.

GORE-TEX® with Paclite® technology 2L



Men's jacket



Men's pants



ASPIRE collection for women

Waterproof, breathable and light, the **GORE-TEX® Aspire** jacket and pants guarantee reliable protection against rain. You could say it's the Foray version for women.

GORE-TEX® with Paclite® technology 2L



Women's jacket



Women's pants



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Best sellers - Accessories

Hats



Sombriolet Sun Hat

86% nylon, 14% polyester
UPF 50+ sun protection index
Ventilation holes
Reinforced floating visor



Helios Sun Hat

86% nylon, 14% polyester
UPF 50+ sun protection index
Reinforced floating visor



Sun Bucket

86% nylon, 14% polyester
UPF 50+ sun protection index
Narrower edge



Sun Runner Cap

100% Supplex Nylon
UPF 50+ sun protection index
Ventilation holes
Neck protector



Papyrus Brim Sun Hat

100% nylon
Outer material made of paper
straw
UPF 50+ sun protection index



Oasis Sun Sombrero

86% nylon, 14% polyester
UPF 50+ sun protection index
Reinforced floating visor



Swift Cap

100% Nylon
UPF 30+ sun protection index



Radar Pocket Cap

UPF 30+ sun protection index
Foldable visor.



Seattle Sombrero

100% Nylon
GORE-TEX® 3L

Best sellers - Accessories

Gaiters



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 high

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



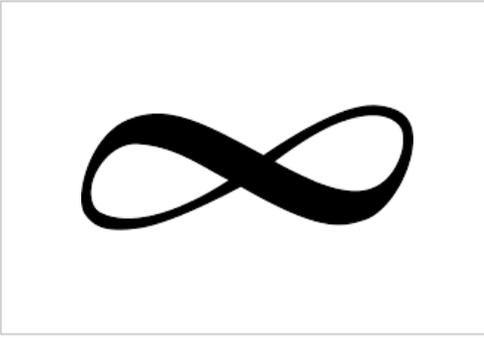
Rocky Mountain Low

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



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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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