



fourth element
EQUIPMENT FOR ADVENTURE



Equipment for Adventure

The development of decompression techniques, mixed gas and rebreather technology has changed the limiting factors in dive duration. The limitations of nitrogen loading and gas availability have become secondary to the human body's capability to endure extremes of temperature.

This is our territory.

Fourth Element's range of technical dive suits have been tested in the world's most extreme diving locations, from the sub-zero waters of the Antarctic to the tropical temperatures of the Maldives.

The HALO 3D undersuit is the only biomapped insulation product designed specifically for diving and has been used by the National Geographic team divers on their 2013 Arctic Expedition.

The Argonaut features innovative design and cutting-edge fabric technology to produce a robust yet lightweight drysuit with a breathable, Kevlar reinforced model also available.

The Arctic undersuit is the choice of professional divers worldwide including the FBI, Norwegian Navy, Dutch Special Forces and British Police Divers.

The Thermocline neutrally buoyant wetsuit won an APEX innovation award for the design of a unique wetsuit concept that has since been emulated by many others. This breathable suit is more comfortable than traditional neoprene and has enabled divers with neoprene allergies to continue to pursue the sport they love.

The Proteus wetsuit is consistently rated as "best in class" in head-to-head tests in dive magazines. Its innovative design features and attention to detail are hallmarks of fourth element's approach to product development across the entire range.

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Halo 3D

The only undersuit to feature body-mapped insulation, strategically placed to enhance thermal protection when in horizontal trim. Spacetek panels provide a constant, compression-resistant layer of air on the torso front, thighs and shoulders and heavyweight, high density material enhances the protection of critical areas of high blood flow including the kidney region. Designed for use underneath membrane and trilaminate suits.

Available in men's and women's styles.



Argonaut

The Argonaut drysuit has been developed for the harshest diving conditions on the planet. Ergonomic design along with a telescopic torso allows maximum comfort and range of movement whether diving in conditions of extreme cold, using multiple thermal layers, or wearing lighter undersuits in warmer waters. Available in Flex trilaminate or Breathable Kevlar, which won the Sport Diver Magazine Award for Most Innovative Product in 2014.



Arctic

The Arctic's two layers of high insulation, low bulk fabric, ensure exceptional levels of thermal protection. The versatile two-piece design works well even when wet and provides outstanding performance under closer-fitting neoprene drysuits and in a layering system. It is also suited for use underneath membrane and trilaminate suits.

Available in men's and women's styles and unisex one-piece.



Xerotherm

Made using ultra-fast wicking fabric originally developed for NASA, the Xerotherm holds a layer of air next to the skin keeping the wearer drier and more comfortable. It is designed to be worn under another undersuit or on its own under a neoprene drysuit. It provides astonishing warmth without contributing to bulk or buoyancy.

Available as a unisex style.



Drybase

Using fast wicking fabric, Drybase is the ideal alternative to cotton underneath a Thinsulate™ or other undersuit. The skin is kept dry and the wearer is more comfortable before, during and after the dive. Using Drybase enables divers to get the most out for the performance of their undersuit.

Available in men's and women's styles.



Team members relax in the underground camp in the prototype J2 Baselayer



Fourth Element team diver Phil Short prepares lunch, 1000m underground



The stunning rock formations are just part of the appeal of this incredible cave system



J2 Baselayer

The entrance to the J2 cave system is located at an altitude of more than 3000m in the remote mountains of Southern Mexico and is part of what is believed to be the deepest caves in the world. Several expeditions have been mounted into this cave system, and with each one, the length of time that explorers spend underground is increasing. Fourth Element Team Diver Phil Short spent 1000 hours under the ground in 2013 as lead diver on the most recent attempt, and reached what is certainly the most remote point on the planet known to man.

An expedition like this has many logistical challenges, and one of them that fourth element was asked to help with was in the development of specialist clothing. Our brief was pretty straightforward: develop a garment that is extremely compact, has excellent wicking and prevents skin infections.

This led to the production of the J2 Baselayer from a polyester yarn spun with silver ions, which are bacteriostatic and anti-fungal. This silver ion treatment remains for the lifetime of the fabric and cannot be washed out.

Contact points against the skin are minimised by a unique knit allowing more air to circulate next to the skin, but still having enough fibres to wick away sweat. The fabric is lightweight and packs up to next to nothing. This enabled the team to wear the gear for up to 19 days for 24 hours a day without skin infections becoming a problem.

The J2 Baselayer will be available in May/June 2014.

Core Bodywarmer

Insulating critical areas of the torso with additional layers of high thermal performance fleece equips the Core bodywarmer to become an essential part of a diver's thermal systems. Extra insulation in the kidney region limits heat loss from this high blood flow area. The chest and upper torso (often the first areas to get cold due to the redistribution of air within a drysuit) are also protected by more layers of high density fleece.

A removable crotch strap, secured with elasticated loops hold the Core in position during the dive, if required.

The Core is also designed to work well above the surface, featuring fourth element's XWPs SOFTSHELL water-resistant fabric and zipped handwarmer pockets and welded chest pocket with water-resistant zip.





Thermocline

A revolution in thermal protection, using state of the art materials to maximise performance without compromising on comfort, Thermocline provides a breathable, hypoallergenic, machine-washable alternative to neoprene wetsuits - perfect for dive travel. With thermal protection equivalent to 2mm neoprene, the neutrally buoyant wetsuit system includes full suits weighing less than 1kg (2.2lbs), long and short sleeved tops and short-johns. Core protection is provided by shorts and sleeveless vests, to provide extra warmth under a wetsuit.

Hydroskins

Constructed from high grade Lycra® based fabric, the Hydroskin rash guards are designed to wear under a wetsuit or semi-dry suit or as a UV shield for other watersport activities. They are the perfect cover up for snorkelling. The ultra smooth fabric also reduces friction between the skin and a wetsuit, and helps to stop chafing of tight/ill-fitting suits.

Proteus

The Proteus offers outstanding thermal protection and comfort during a dive. Incorporating the unique "Hydrolock" neck seal and glideskin seals at the wrists and plasma seals at the ankles, the design of the suit eliminates almost all water ingress and prevents flushing. It is rated the warmest diving wetsuit in its class by Sport Diver Magazine. Available in 3mm, 5mm and 7mm.



NEW



Drypack

Waterproof welded seams and comfortable, adjustable rucksack style straps make the drypack an instant classic that will be as useful off the dive boat as it is on it. The roll top closure is simple to use, and a small internal pocket ensures that keys and small items do not end up at the bottom of the bag. Volume 45 litres.

ARGO Dry Duffel and Changing Mat

The ARGO drybag features high frequency welded, waterproof seams and a zipless design in a rugged, hardwearing 500D fabric. At 44 litres it is large enough for a drysuit and undersuit, or everything you need for an adventurous weekend away. With adjustable harness, the ARGO can be configured to be carried as a holdall, or a rucksack.

The changing mat is large enough to be a useful addition to any diver's kit with ample room for changing, but remains extremely packable. Made using the same hardwearing fabric as the ARGO bag, the mat can be rolled up and secured using attached elasticated loops.



Travel f.Light

Baggage allowances on airlines are coming down all the time, and the cost of going over your weight allowance is going up. By getting rid of the wheels on traditional bags, the weight of the bag is reduced,

leaving more allowance for gear. The MANTA and REMORA are best used together as part of a system meticulously designed for the adventurous dive traveller.



Manta F.Light Bag

Weighing less than 1kg (2.2lbs) but with a huge 115 litre capacity, this lightweight divebag is optimised for dive travel, featuring waterproof, welded seams, removable rucksack strap and tough TPU fabric.

Manta Remora Combination

Rugged performance, lightweight portability and convenient organisation in a system designed to make a dive trip more enjoyable and less likely to incur excess baggage fees at the airport. When stowed inside the MANTA, the REMORA provides cushioning when the

Remora F.Light Bag

Designed to fit inside the Manta, or to be used independently. Features two large compartments for personal items, waterproof document pocket with water resistant zip and padded carrying strap.

bag is carried using the wide, comfortable shoulder straps. The REMORA can easily be removed to allow personal items and dive gear to be carried in the same bag but easily separated on arrival at destination. Designed for travel, this is the f.LIGHT series.



Amphibian Boots

In 6.5mm neoprene, these boots provide the ultimate in support and protection. A stable footbed and hardwearing moulded outsole make these the best choice for regular shore diving.



Pelagic Boots

The perfect all-round dive boot - lightweight and comfortable yet warm due to 6.5mm neoprene with a thermal lining. The addition of the footbed, provides a stable chassis and greater comfort when finning and climbing ladders.



Finsock Wetsuit Socks

Comfortable lining socks for full foot (slipper) fins and neoprene boots. Constructed using flat lock stitching and fleece-lined fabric, their smooth exterior helps when donning a wetsuit.



Thermocline Socks

These are a fantastic alternative to neoprene socks. With flat lock stitching and fleece lined fabric. Thermocline socks help to keep the feet warmer and assist with donning of a wetsuit, providing low friction between the feet and the inside of the wetsuit.



Hotfoot Drysuit Socks

High density fleece combined with a water resistant outer fabric provides maximum thermal protection, creating a comfortable, dry and warm microclimate around the foot.



Hotfoot Pro

With three layers of insulating fleece protecting the soles of your feet from the cold ground or boat deck, and a water resistant outer layer extending to mid calf, these are the warmest socks in our range.



3mm Gloves

These deliver outstanding dexterity - ideal for photography and videography without compromising on warmth. The carbonite finish provides excellent grip and the gloves are easy to don.



5mm Gloves

The perfect combination of warmth and dexterity, these are ideal all-round gloves. Stretch neoprene and sealed seams give great fit with minimal water ingress, whilst maintaining flexibility.



G1 Glove Liners

Effective under drygloves or wet mitts, the hydrofoam material with high performance thermal lining provides the confidence of some protection even in the case of dryglove failure.



4mm, 7mm Mitts

The 3-finger sealed-seam design maximises thermal protection without compromising functionality, thanks to stretch neoprene for fit and dexterity. 4mm mitts can be combined with the G1 Glove Liner.



Xerotherm Wrist Warmers

Designed to be used with drygloves, these bridge the gap between the undersuit and the dry glove liner. The wrist warmers sit below the drysuits seal and allow air to migrate slowly from the suit into the dryglove, whilst protecting the wrists.



3mm, 5mm, 7mm Hoods

The minimalist, simple design features a smooth glideskin interior, stretch neoprene, and microholes to vent air with minimal water ingress. 7mm coldwater hood also features an additional skirt for drysuits with a "warmneck" design.

We are Divers

At fourth element, we strive to reflect our passion for diving in everything we do. Our products are designed as the result of inspiration on a dive or an expedition, months of prototyping and refining, and a never-ending search for innovative solutions to the challenges faced by divers in the pursuit of their sport.

Part of this objective is achieved by supporting divers and expeditions pushing the boundaries of what we know about our planet and our maritime history. In 2013 alone, we supported the J2 and San Agustin cave expeditions in Mexico, the Catlin Seaview Survey, the Under the Pole expedition and the Main Drain Caving project in Utah, USA. Our dive team includes Emmy Award winning film makers and cameramen, Women Divers Hall of Fame members, world record-breaking cave divers and some of the foremost technical divers and explorers in the world. All of them help us in our mission to make a better product.

We support marine charities including the Shark Trust, Project AWARE and the Plastic Oceans Foundation and we are sponsors of the Our World-Underwater Scholarship Society.

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