

DRY SUIT INSTRUCTIONS FOR USE



fourth element

ar**onaut**

ADVANCED DRY SUIT TECHNOLOGY

DRY SUIT INSTRUCTIONS FOR USE

FIOH, Finnish Institute of Occupational Health, Topeliuksenkatu 41 a A, FIN-00250 Helsinki, Finland, notified body no. 0403 for personal protective equipment, has EC type-examined this product according to standard EN 14225-2:2005.

WARNING! DIVING WITH DRY SUITS MAY BE HAZARDOUS.

DO NOT USE THIS SUIT UNLESS YOU HAVE RECEIVED INSTRUCTION FOR DIVING WITH A DRY SUIT; NEVER DIVE ALONE; ALWAYS USE A BUOYANCY COMPENSATOR

The purpose of the dry diving suit is, as the name says, to keep you dry. Make sure that you have sufficient thermal insulation by using two or three layers of underwear, depending on the conditions. Keep in mind that cold water cools 25 times faster than air of the same temperature. Due to the difference between the outer and inner temperatures, moisture will condense on the inner surface of the suit.

DONNING / DRESSING

- Make sure the suit is the right size and it fits you well. Pay special attention to height, chest girth and the size of neck seal, wrist seals, hood and boots. Guidance on what is the correct sizing can be obtained from authorised dealers or the manufacturer.
- Apply talcum powder to the neck seal as well as to the wrist seals before and after each dive. Use the talcum powder supplied with the suit.
- Avoid dressing in cold / freezing conditions e.g. Below 5 Degrees C. If this is not possible, warm the neck and wrist seals of the suit by using a chemical heater or the like. By this you protect the seals, which may become stiff when cold, from possibly tearing.
- Make sure that the zipper of your suit is completely open. Lubricate the dry zipper with the lubricant that is supplied with your suit. Apply only to the tooth side of the zipper and make sure that the inside of the zipper is free from dirt, sand and grit etc.

Zipper: Regular cleaning and minimal silicone greasing is advised in order to prevent damage to tape and seals. Only apply a small amount at zipper head, wipe away excess silicone.

WARNING! DO NOT USE SILICONE COMPOUNDS ON RUBBER PARTS OF THE SUIT!

- Grip your suit with both hands and turn the upper part of the suit inside out. Make sure that the suspenders are at the outside of the legs as you step into the suit (**Figure 1**).
- Put the suspenders in place. Adjust the length of the suspenders to fit (**Figure 2**).
- Don the left sleeve and lift it to your shoulder. Then don the right sleeve and lift it to your shoulder (**Figures 3 and 4**).
- Grip with both hands the fabric outside the neck seal and shoulder yoke and pull over your head (**Figure 5**).
- Adjust the neck seal
- Close the zippers carefully (**Figure 6**).

WARNING! MAKE SURE THAT YOUR UNDERWEAR OR SIMILAR DOES NOT GET TRAPPED IN BETWEEN THE ZIPPER TEETH.

- Adjust the length of the crotch strap.
- Check the valves are functioning properly.
- Open the outlet valve by turning its lid counter clockwise, until the valve is completely open.
- Bend your knees and check that air is being dumped through the valve.
- Close the outlet valve by turning its lid clockwise. Adjust the outlet valve according to your needs.
- Connect the inflator hose to the inlet valve and depress the inflator valve button to check that suit inflates
- You can use cuff rings and dry gloves with this suit.

PLEASE OBSERVE THE FOLLOWING POINTS CONCERNING THE USE OF YOUR DRY SUIT

Weighting with variable volume suits:

- With your suit and BC being vented of air, your surface buoyancy should be neutral.
- During descent you should add air into your suit as the depth increases, in order to avoid damage that the static pressure might cause.
- Using gases other than air (e.g. argon, enriched air) as inflation gas without having specialised training and skills is not advised, as it may be hazardous

Diving in contaminated water:

- You should avoid using your suit in particularly dirty water, or in water containing chemicals or oil. The exceptional liquid composition may rapidly damage the suit construction.

Use of D-rings:

- If your suit is equipped with D-rings, these are intended for the attachment of light diving accessories only.
- DO NOT LIFT OR HAUL THE DIVER BY THE D-RINGS

Diving conditions:

- Do not dive beyond the depth for which you have received proper training.
- The drysuit materials have been tested for thermal resistance from -20 to +70 degrees centigrade
- Thermal insulation of the suit can be improved by wearing warm undergarments
- While using the suit, take into account the risks of hypothermia and hyperthermia
- Dive depth will alter the buoyancy and thermal insulation of the suit

WARNING! SOME COMPONENTS OF THE SUIT MAY CAUSE ALLERGIC REACTIONS (E.G. LATEX SEALS).

DOFFING / UNDRRESSING

- Disconnect the inflator hose from the inlet valve.
- Open both zippers fully.
- Grip with all fingers of both hands (thumbs outside) down to the lower part of the neck seal. Bend your head and lift the hood over your head. Avoid gripping with your fingernails.
- Remove the right sleeve first, after that the left sleeve.
- Avoid gripping the seals with your fingernails when removing your arms from the sleeves.
- Pull down the suspenders and step out of your suit.

ADJUSTING THE SEALS

•Adjust your neck seal and wrist seals by trimming them by not more than 5 mm at a time. Carefully use a good pair of scissors to make a smooth cut. Try the suit on in between each adjustment, until the fit is right. Be careful not to leave any notches when trimming the seals!
WARNING! IF YOU TRIM YOUR SEALS TOO MUCH THEY MAY CAUSE LEAKAGE.

CARE AND STORAGE OF YOUR SUIT

- After each use, rinse your suit and its valves with fresh water.
- Make sure that your suit is clean and dry before storage. If necessary, turn the suit inside out for drying of the inside.
- Apply talcum powder to the latex seals and grease the zipper as explained above.
- Open the suit zippers completely. Lay down the suit with its front side down, and roll up the suit, starting at the boots. Or hang the suit on a padded hanger.

WARNING! DO NOT BEND THE BOOTS!








- Turn the sleeves over the suit, making sure that the valves are protected under the sleeves.
- Put your suit into its storage bag, check that the repair kit is in the bag.

WARNING! DO NOT STORE YOUR SUIT IN ENVIRONMENTS WITH ELECTRIC MOTORS OR DEVICES THAT PRODUCE OZONE. KEEP YOUR SUIT OUT OF DIRECT SUNLIGHT. THESE MAY CAUSE DAMAGE TO THE RUBBER PARTS OF YOUR SUIT.

WASHING INSTRUCTIONS AND MARKINGS

- Do not machine wash, tumble dry or chemical wash
- Consult retailer or manufacturer if necessary
- The suit might have washing instructions or other symbols.

Explanations:

	Handwash 40 centigrade with mild detergent. Use soft brush to remove sand or other dirt.
	No bleaching.
	No ironing.
	No tumble drying.
	Hang dry.
	Read the instructions of use.
	Product has been approved and tested according to relevant European standards

SERVICE AND REPAIR

- Service and repair of your suit and its valves must be carried out by an authorised dealer.
- Due to the variety in the conditions of storage and usage, it is impossible to foresee the suit life.
- To assure the condition of your suit, it is recommended that you have your suit tested by an authorised service centre at least once a year.

INSTRUCTIONS FOR REPAIR:

- Let the suit dry.
- Carefully clean the spot to be repaired with acetone or benzene.
- Place the repair patch on to the spot to be repaired on the inside of the suit, and attach it with heat, using an iron or a heat press. Temperature 170°C for about 10 seconds.
- Smooth any wrinkles in the patch with fingers working from the inside towards the edges as the patch cools (WARNING: the patch will be hot)
- Once the repair has cooled, the suit is immediately ready for use.
- For additional protection, a duratex patch can be applied to the outside of the suit in the same manner.

WARNING:THE ABOVE QUICK REPAIRS ARE INTENDED AS "FIRST AID" METHODS ONLY. IN CASE OF EXTENSIVE LEAKAGE OR TEAR, PLEASE CONTACT YOUR DEALER.





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EQUIPMENT FOR ADVENTURE

cover photo: location: Hokkaido, Japan photo: Aaron Wong

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