

Test & Repair Kit for Immersion Suit

Product Features

- Consist of an airtight clamp, manual inflating pump, pressure gauge, spanner, and a set of repair tools.
- Easy-to-follow instructions provided in the kit.
- Detects any potential leaks or damages in the immersion suit's sealing system. Allows for prompt repairs and replacements, preventing any potential water ingress into the suit and ensuring the wearer's safety.

Content

Immersion Suit Test Kit

- (1) Airtight Clamp
- (2) Pressure Gauge
- (3) Manual Inflating Pump
- (4) Spanner

Immersion Suit Repair Kit

- (5) Cutter
- (6) Brush
- (7) Glue
- (8) Foam Piece
- (9) Cloth Piece
- (10) Storage Pouch (repair kit)

- (11) Instruction Booklet + CD
- (12) Suit Case



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Disclaimer: Accuracy of all technical data and information are provided to the best knowledge of the manufacturer. Properties, specifications and application parameters are subject to change without notice. The manufacturer does not undertake any liability of any kind whatsoever.



Fig. 1

Fig. 2

How To Inspect Immersion Suit

Note: Video instruction is included in the CD-ROM provided.

- (1) Lay the suit on a clean, flat surface. Make sure the suit is dry inside and out.
- (2) The set of airtight clamp has two parts: upper-part and under-part. Make sure that the foam rubber on the upper-part and under-part is intact.
- (3) Place the under-part into the cap of the immersion suit (See Fig.1).
- (4) Close zipper tightly, all the way to the top (See Fig.2).
- (5) Place the upper-part downwards and connect to the under-part. Ensure that the zipper fits correctly through the opening of the upper-part (See Fig.3).
- (6) Put the metal closing rings and fasten the lock nuts tightly with the spanner.
- (7) Attach the pressure gauge and connecting hose into the quick connector points of the clamp (See Fig.4).
- (8) Fill the entire suit carefully with air to pressure of 0.8 to 1.4 kilo Pa.
- (9) Fill a bucket with lukewarm water, add some mild dish washing detergent and create a light foam.
- (10) Brush the soap solution along the zip and seams of the suit first, then repeat for the rest of the surface of the suit (See Fig.7). If bubbles are seen, mark the area for repair later on.
- (11) It is normal for bubbles to appear in the following parts of the suit:
 - 1) zip slides
 - 2) opening of the upper-part (See Fig.8)
- (12) Fill out the inspection record.
- (13) After the inspection, remove inflator and pressure gauge from the quick connectors, loosen the nuts, remove the clamp, and store back into the box.
- (14) Suits that have been inspected should be rinsed clean with water where the soap solution was applied (careful not to let water inside of the suit), let immersion suit air dry and repack it into storage bag. If water enters the life jacket during rinsing, turn the wet areas out to dry.



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8

How To Repair Holes On Immersion Suit

Note: Use cloth piece for repair of Polyester with TPU coated immersion suit. Use foam piece for repair of Neoprene immersion suit.

- (1) Ensure the area around the tear or hole is clean and dry. Remove any debris or contaminants that could interfere with adhesive bonding.
- (2) Take out the repair kit, cut a piece of cloth/foam material in a size slightly larger than the damaged area. Round the edges of the patch to prevent peeling.
- (3) **For Polyester with TPU coated immersion suit:** Apply moderate glue with brush on the cut cloth and on the damaged surface. When the glue becomes tacky, stick the piece of cloth over the hole.
- (4) **For Neoprene immersion suit:** Apply moderate glue with brush on the flat, smooth side of cut foam and on the inner surface of damaged area. When the glue becomes tacky, stick the piece of foam over the hole from the inside of the suit.
- (5) In order to improve the adherence, hammer with a rubber rod gently and let it cure for 24 hours.
- (6) Inflate the repaired immersion suit to check the quality of repair.



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