

FIOH
Finnish Institute of Occupational Health, Department of Physics
notified by the Ministry of Social Affairs and Health and
identified under 0403

grants

EC TYPE EXAMINATION CERTIFICATE

no. 21040S01

for variable volume suit for diving

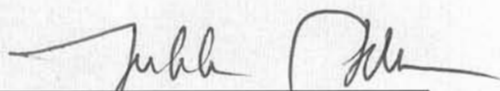
PURSUIT X3

Ursuk Oy

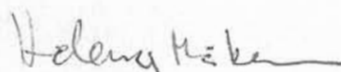
Turku, Finland

This product complies with Directive 89/686/EEC

Vantaa, 07 March 2001



Jukka Starck
Director of the Department



Helena Mäkinen
Senior Researcher

This certificate comprises 3 pages, of which this is the first one.
This certificate replaces certificate no. 96186S01 issued 1996-12-20



1. Applicant

Ursuk Oy
PL 15
FIN-20521 Turku
Finland

2. Description and identification of the product

Type: Dry diving suit

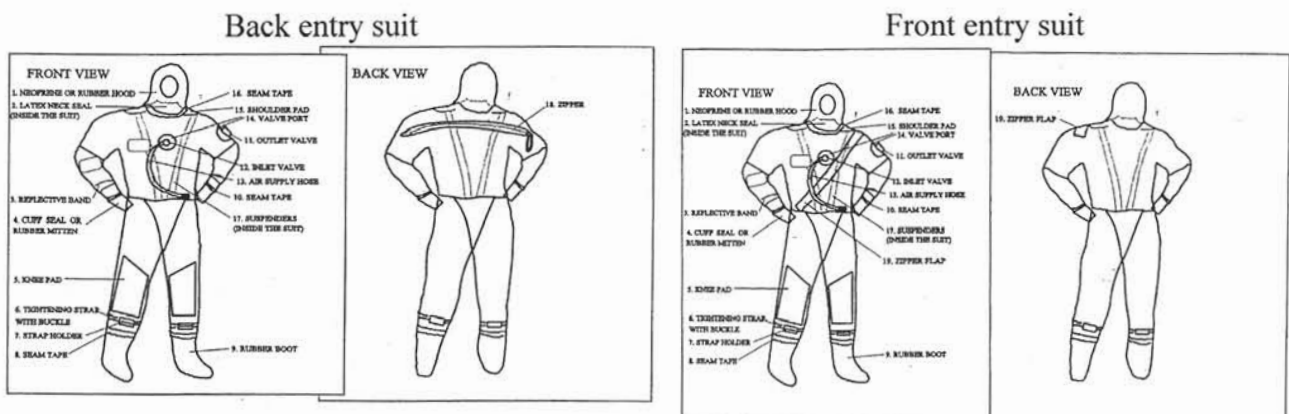
Name: PURSUIT X3

Size range: Height 158 - 194, chest girth 80 - 124 (S, SM, M, ML, L, XL), foot size 40-45 (European)

Description: Dry diving suit is made of knitted polyester fabric coated with thermoplastic PU. The coated side is outer side of the suit. Basic hood is made of 5 mm closed cell neoprene rubber coated on polyamide knitting or EPDM/natural rubber mixture coated on polyester knitting with knitted wool inner lining. Cuff seals, rubber mittens, neck seals, rubber hoods and rubber boots are attached by glueing. Two basic models, front and back entry suits

Manufacturer: Ursuk Oy, Turku Finland

Pictures of the product:





3. Adequacy and validity of the technical documentation

The documentation supplied by the applicant is listed in Appendix 1. The technical documentation is considered adequate and valid. The product has been tested by valid testing methods in an accredited laboratory.

4. Compliance with basic health and safety requirements

The product complies with the relevant basic health and safety requirements stated in Directive 89/686/EEC Annex II as amended by 93/95/EEC, 93/68/EEC and 96/58/EC (in Finnish VNp 1406/93 Liite 1).

5. Summary

The product and the technical documentation relating to it comply with the relevant basic health and safety requirements stated in Directive 89/686/EEC.

Note: Any modification in design, materials, or in the technical documentation, carried out on this type examined product must be brought to the attention of FIOH.

Appendix 1. Technical documentation

End of EC type examination certificate no. 21040S01.



Technical documentation regarding EC type examination certificate 21040S01

Product name: PURSUIT X3

Applicant: Ursuk Oy, Turku Finland

<i>Item of technical documentation</i>	<i>Document identification</i>	<i>Assessment</i>
1. Application for the EC type examination	Dated 2001 02-22	Received 2001-02-27
2. Draft EC declaration of conformity	Draft dated 2001-02-22	See comments, cat II product, last paragraph is not needed
3. Product drawing, construction, and material list	.1 The specification of the dry diving suit made by Tamsafe, received 1996-10-29 .2 Si Tech valve manual .3 Dynat slide fasteners with polyurethane coating	Product, materials and accessories are identified
4. Compliance with Directive 89/686/EEC relevant basic requirements	The compliance assessment is based on reports mentioned below items 4.1-4.8	
4.1 User's reports	Reports from the users: PADI/Wallin I., 1995-07-06 Salo J.J., 1995-07-06 Kauppinen M., 1995-06-08, 1996-03-08 Muukkonen A., 1995-07-13, 1996-01-10	The customers responses are favourable
4.2 FIOH assessment of relevant Directive basic requirements	2001-03-06	The relevant requirements are fulfilled
4.3 FIOH test report	96168T01, 1996-08-05	The puncture resistance of materials and the seam strength were acceptable also after temperature cycling
4.4 FIOH test report	96168T02, 1996-11-11 Ergonomic and water performance test of diving suit	The deficiencies found are reflected in the user's manual
4.5 FIOH test report	96168T03, 1996-12-10 Testing of diving suit	Cold donning test in accordance with the annex to IMO resolution A. 689 (17), Part 1.(3.1.4)
4.6 Si Tech Certificates	Outlet valve, 1996-04-26 Inlet valve / hose, 1996-04-26	The information of the valves and hose is adequate
4.7 Draft information sheet	Kuivasukelluspuvun ohjekirja, received 2001-02-27	The information is relevant.



4.8 Product markings	Draft received 2001-02-27	Fulfils the requirements of the Directive and EN 340:1993, NB number is not needed, cat II product
5.1 Description of the production quality system and related product control and test facilities	SFS laatusertifikaatti 1172-03, ISO 9002, 98-02-12	Production quality system documentation is adequate