

TYPE APPROVAL CERTIFICATE

This is to certify:

**That the Immersion suits and anti-exposure suits designed to be worn WITHOUT a lifejacket:
Immersion suit with inherent insulation**

with type designation(s)
SeaEco+

Issued to

**Hansen Protection AS
MOSS, Norway**

is found to comply with
**SOLAS 74 as amended, Regulation III/4, III/7, III/22, III/32, III/34 & X/3, LSA Code and
2000 HSC Code 8**

Application :

Approved to be used as insulated immersion suits without a lifejacket.

This certificate is recognized by Transport Canada.

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed
by DNV GL.**

Issued at **Høvik** on **2019-06-19**

This Certificate is valid until **2024-06-18**.

for **DNV GL**

DNV GL local station: **Sandefjord**

Approval Engineer: **Jasna Jovovic-Lainis**

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Mårten Schei-Nilsson
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Job Id: **262.1-011239-7**
Certificate No: **TALB0000037**

Product description

SeaEco+ is an insulated immersion suit fitted with an buoyant collar, lifting loop, lifejacket light and lifeline. The suit and gloves are made of waterproof neoprene. The colours of the suit are orange/black.

The suit is available in the following sizes:

- XL (180 – 200 cm)
- Standard (150 – 200 cm)
- Medium (147 – 170 cm)
- Small (100 – 150 cm)

Main fabric	Neoprene	by Nam Liong Enterprise Co., Ltd.
Main zipper	Tizip	by TITEX Vertiebs GmbH

Application/Limitation

SeaEco+ is approved to be used without a lifejacket.

Position indicating light and retro-reflective materials used for all suits shall be of an approved type.

The design assessment is based on IMO Res. MSC.48(66) as amended by IMO Res. MSC.207(81) and IMO Res. MSC.218(82).

Production and installation testing shall be carried out according to IMO Res. MSC.81(70), Part 2.

Type Approval documentation

Certification in accordance with Class Program DNVGL-CP-0338, September 2018.

Tests carried out

Tests are documented in accordance with recommendation on testing of Lifesaving Appliances, IMO Res. MSC.81(70), Part 1, including IMO Res. MSC.200(81), IMO Res. MSC.226(82) and IMO Res. MSC.323(89).

Marking of product

Transport Canada Approval

Based on the procedures laid down in the Transport Canada Publication entitled "Approval Procedures for, Life Saving Equipment and Structural Fire Protection Products (TP 14612)", DNV GL confirms that the product/s listed in this certificate is/are in accordance with Transport Canada's requirements.

Transport Canada Application/Limitation

All of the required instructions and markings, including storage containers and suit bags must be in both French and English.

Periodical assessment

DNV GL's surveyor is to be given permission to perform Periodical Assessments at any time during the validity of this certificate and at least every second year. The arrangement is to be in accordance with procedure described in Class Program DNVGL-CP-0338, Section 4.