

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Oil spray protection system

with type designation(s)

MF-01(A) (Acrylic adhesive) Antispray Tape, MF-01 (Silicone adhesive) Antispray Tape, MF-02 Antispray Tape, MF-03 Antispray Tape, MF-04 Antispray Tape

Issued to

MAREFLEX GmbH
Hamburg, Germany

is found to comply with

DNV GL class programme DNVGL-CP-0502 – Type approval – Oil spray protection systems

Application :

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

Screening of pipe joints and fittings in accordance with IMO SOLAS Consolidated Edition, 2009, Chapter II-2/ Regulation 4, item 2.2.5.3

Type:

| | |
|---|-----------|
| MF-01(A) (Acrylic adhesive) Antispray Tape | 15 |
| MF-01 (Silicone adhesive) Antispray Tape | 15 |
| MF-02 Antispray Tape | 50 |
| MF-03 Antispray Tape | 25 |
| MF-04 Antispray Tape | 55 |

Max. working press.:

Issued at **Høvik** on **2020-10-12**

This Certificate is valid until **2024-11-18**.

DNV GL local station: **Gdansk CMC**

Approval Engineer: **Eivind Finne Riley**



for **DNV GL**

Digitally Signed By: Bukarica, Dalibor

Location: DNV GL Høvik, Norway

Dalibor Bukarica
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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Job Id: **262.1-008678-6**
Certificate No: **TAP00001Z9**
Revision No: **2**

Manufacturer

A-SPE Europe Sp. J., Agatowa 5, 82-310 Gronowo Górne, Poland

Place of Production

For MF-01, MF02:

A-SPE Europe Sp. J., Wincentego Pola 22, 01-100 Warszawa

For MF-03, MF04:

A-SPE Europe Sp. J., Agatowa 5, 82-310 Gronowo Górne, Poland

Product description

For use in engine rooms or other enclosed spaces as wrapping around possible sources of leakage in fuel oil piping to help prevent fuel spray in event of a leak, as a means of meeting the requirements of the IMO SOLAS, Chpt. II-2, Reg.4, 2.2.5.3.

Reference is also made to IMO FTP Code – IMO Resolution MSC.61(67)

Mareflex MF-01, MF-01(A), MF-02, MF-03 and MF-04 Antispray Tapes are available at following dimensions;

| Width (mm) | x Length (m) |
|------------|--------------|
| 35 | x 10 |
| 50 | x 10 |
| 75 | x 10 |
| 100 | x 10 |
| 140 | x 10 |
| 250 | x 10 |
| 500 | x 10 |
| 1000 | x 10 |

Mareflex MF-01, MF-01(A), MF-02 and MF-04 Antispray Tapes are made of multilayer aluminium, impregnated fiberglass and release liner with a special adhesive for installation.

Mareflex MF-03 Antispray Tape is made of single layer aluminium, impregnated fiberglass and release liner with a special adhesive for installation.

Application/Limitation

The extent of use is limited to spray shielding applications on oil pressure pipes located above the floor plates and which have no insulation in way of the joints. Use is also restricted to readily accessible positions where the integrity of the application may be inspected regularly, and new covering will be applied after removal for maintenance purposes.

The fitting of Mareflex Antispray Tape is to be carried out in accordance with the Manufacturer's instructions.

The Mareflex Antispray Tape cannot be used for pipes insulation, or as replacement for pipe gaskets and sealings.

Type Approval documentation

- Technical Specifications and Installation Instructions for Mareflex MF-01 Antispray Tape
- Installation Instruction, Ver. 2.01
- Specification for adhesive

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Tests carried out

- Szczecin University of Technology, ref.TZ/FTP-5/101/2006, dated 06-03-2006, Test Report of the Results of Test for the Flame Spread on Floor Coverings, ref. IMO FTP Code – IMO Res. MSC.61(67).
- The Institute of Technical Textiles "MORATEX", Test Report No. 43/2004, dated 2006-04-28, Tensile Strength Test and Coating Adhesion Test.
- A-SPE, Pressure Test Report of Mareflex MF-01 Antispray Tape, November 2006.
- Institute of Security Technology "MORATEX", Test Report No. 252/2009, dated 13.08.2009, Coating Adhesion Test.
- West Pomeranian University of Technology, Szczecin, ref.TZ/FTP-5/207/2009, dated 11-09-2009, Test Report of the Results of Test for the Surface Flammability of Materials, ref. IMO FTP Code – IMO Res. MSC.61(67).
- Test report of surface flammability of materials for MF-01 (Acrylic adhesive) Antispray Tape, 10-01-2019, at West Pomeranian University of Technology
- Test report of surface flammability of materials for MF-01 (Silicone adhesive) Antispray Tape, 05-04-2018, at West Pomeranian University of Technology
- Test report of surface flammability of materials for MF-02 Antispray Tape, 16-05-2019, at West Pomeranian University of Technology
- Test report of surface flammability of materials for MF-03 Antispray Tape, 17-09-2020, at West Pomeranian University of Technology
- Test report of surface flammability of materials for MF-04 Antispray Tape 17-09-2020, at West Pomeranian University of Technology
- Pressure test report No 1/2019 for MF-01 (Acrylic adhesive) Antispray Tape, MF-02 Antispray Tape, MF-03 Antispray Tape and MF-04 Antispray Tape, witnessed by DNV GL 26-06-2019
- Pressure test report No 1/2019 for MF-03 (Acrylic adhesive), witnessed by DNV GL 08-09-2020
- Pressure test report No 1/2019 for MF-04 (Acrylic adhesive), witnessed by DNV GL 08-09-2020

Marking of product

- Manufacturer's Name
- Product Type.

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.