



TYPE APPROVAL CERTIFICATE

Certificate No:
TAP0000129
Revision No:
3

This is to certify:

That the Oil spray protection system

with type designation(s)

MF-03 Antispray Tape, 50 mic, MF-03 Antispray Tape, 80 mic, MF-03 Antispray Tape, 100 mic, MF-04 Antispray Tape

Issued to

**MAREFLEX GmbH
Hamburg, Germany**

is found to comply with

DNV class programme DNV-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.
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:	Max. working press.:
MF-03 Antispray Tape, 50 mic	15 bar
MF-03 Antispray Tape, 80 mic	25 bar
MF-03 Antispray Tape, 100 mic	25 bar
MF-04 Antispray Tape	55 bar

Issued at **Hamburg** on **2023-08-04**

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

DNV local unit: **Gdansk CMC**

Approval Engineer: **Ana Cristina Do Carmo Insfran**

for DNV



Digitally Signed By: Klinger, Sven
Location: DNV GL SE Hamburg, Germany

**Sven Klinger
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 AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") 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.



Form code: TA 251

Revision: 2022-12

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Product description

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

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

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, Ch. II-2, Reg.4, 2.2.5.3.

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

Mareflex 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

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

Type Approval Application – Modification dated on 2023-06-06
Test Report of surface flammability of materials MF-03 (80 mic. and 50 mic.)
no.: IBR/Z-031-2023 dated on 2023-06-24
Pressure Test – Report no.: I/2023 dated on 2023-06-20
Installation Instruction, Ver. 2.01
Specification for adhesive

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



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- 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

Manufacturer

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

Place of Production

For MF-03, MF04:

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

Marking of product

- Manufacturer's Name
- Product Type.

Periodical assessment

For retention of the Type Approval, a DNV Surveyor shall perform periodical assessment after two years (+/- 90 days) and after 3.5 years (+/- 90 days) to verify that the conditions for the Type Approval are complied with. Refer to DNV-CP-0338, Sec.4.

The certificate is only valid if required periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in <https://approvalfinder.dnv.com>

END OF CERTIFICATE