

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Miscellaneous Fittings for Pressurised Equipment

with type designation(s)

MAREFLEX MF-01, AntiSpray Tape

Issued to

**MAREFLEX GmbH
Wentorf, Germany**

is found to comply with

**Det Norske Veritas' Rules for Classification of Ships
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Application :

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

Temperature range: Max. 150 degr.C Fluid Temp.
Design pressure: For use with piping of maximum 15 bar internal pressure.
Operating media: For use with pipe flanges and fittings in systems for fuel oil, lube oil and other flammable oils.

Temperature range:
Design pressure:

Operating media:

Max. 150 degr.C Fluid Temp.

**For use with piping of maximum 15 bar internal pressure.
For use with pipe flanges and fittings in systems for fuel oil, lube oil and other flammable oils.**

This Certificate is valid until **2019-06-30**.

Issued at **Høvik** on **2015-05-06**

DNV GL local station: **Gdansk**

Approval Engineer: **Jens Rogge**

for **DNV GL**



Digitally Signed By: Sæle-Nilsen, Dag

Location: DNV GL Høvik, Norway

Signing Date: 2015-06-15

**Dag Sæle-Nilsen
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.

Certificate No: **P-15288**
File No: **746.90**
Job Id: **262.1-008678-2**

Manufacturer

A-SPE Polska, Agatowa 5, 82-310 Gronowo Górne, Poland

Place of Production

A-SPE Polska, Wincentego Pola 22, 01-100 Warszawa

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 Antispray Tape;

Product code	Width (mm)	x Length (m)
MF01-35	35	x 10
MF01-50	50	x 10
MF01-75	75	x 10
MF01-100	100	x 10
MF01-140	140	x 10
MF01-250	250	x 10
MF01-500	500	x 10
MF01-1000	1000	x 10

Mareflex MF-01 Antispray Tape is a multilayer aluminium/ fiberglass fabric/ 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 MF-01 Antispray Tape is to be carried out in accordance with the Manufacturer's instructions.

The Mareflex MF-01 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

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

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Materials, ref. IMO FTP Code – IMO Res. MSC.61(67).

Marking of product

-Manufacturer's Name & Product Type.

Periodical assessment

For retention of the Type Approval, DNV Surveyor shall perform a survey every second year, to verify that the conditions for the type approval are complied with and to witness testing on samples of tape/ sheet taken at random from stock.

This certificate replaces previous Type Approval Certificate No. P-13831.