

TYPE APPROVAL CERTIFICATE

Certificate no.:
TAP0000110
Revision No:
1

This is to certify:

that the **Miscellaneous Fittings for Pressurised Equipment**

with type designation(s)
NoSpray Protection System (IM 2002)

issued to

Innovative Manufacturing Inc.
Delta, BC, Canada

is found to comply with
DNV rules for classification – Ships

Application:

Products approved by this certificate are accepted for installation on all vessels classed by DNV.
Screening of pipe joints and fittings in accordance with SOLAS Ch. II-2 / Reg. 4.2.2.5.3

Temperature range: max. 150°C / 300°F Fluid Temperature
Design pressure: For use with piping systems with max 20 bar/300psi operating pressure
Operating media: For use with pipe flanges and fittings in systems containing flammable liquids.

Issued at **Hamburg** on **2024-01-05**

This Certificate is valid until **2029-01-04**.

DNV local unit: **Vancouver**

Approval Engineer: **Christian Kaemmer**

for **DNV**



Digitally Signed By: Klinger, Sven
Location: DNV GL SE Hamburg, Germany
Signing Date: 09.01.2024

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.



Product description

NoSpray Protection System is an aluminium/ glass cloth jacketing system which is coated one side with a silicon adhesive for installation. Impervious to oil or oil vapours. Form of manufacture tape or sheet.

Dimensions of Tape

Width [mm]	Tape length of 10 m and total thickness 9.5 mil for all sizes.						
35	50	75	100	140	250	500	1000

Place of Production:

Advanced Flexible Composites
 14 Walter Court
 Lake in the Hills, IL 60156, USA

Application/Limitation

For protection of valves, fittings, flanges, threaded connections and any other piping components to avoid spilling spray, liquids or vapours on sources of ignition. To prevent liquid and gases from developing into a spray fire by controlling leakage.

Use is restricted to accessible positions. The integrity of the application has to be inspected regularly and new covering has to be applied after removal for maintenance purposes.

The installation of NoSpray Protection System is to be carried out in accordance with the Manufacturer’s instructions.

Type Approval documentation

Product Description; Specifications and Application Instructions for NoSpray Protection System
 (This certificate replaces previous Type Approval Certificates No. P-14439, P-12819 and P-11423.)
 Type Approval Assessment Report dated 2023-11-16

Tests carried out

DNV Survey Report No. 410-1-5166-GDR1, dated 23 January, 2003, Surface Flammability Tests of “NoSpray Protection System Metallic Tape”.
 Southwest Research Institute, Test Report dated January 2003; Fire Performance of “NoSpray Protection System” in accordance with IMO Resolution A.653(16).
 DNV Report – Folder PP042629, dated 2013-02-25; Witness of Leakage Test for “NoSpray Protective Tape or Sheet.” Chemsultants International; Report: Project 13-147, dated March 19, 2013; Physical and Adhesive Properties of PSA Sheet.
 DNVGL Witness of Leakage Test for “NoSpray Protective Tape or Sheet” dated 2017-06-15.
 DNV-Witness of Leakage Test for “NoSpray Protective Tape or Sheet” dated 2023-11-16.

Marking of product

- Manufacturer’s Name
- Product Type

Periodical assessment

For retention of the Type Approval, a DNV Surveyor shall perform periodical assessment to verify that the conditions for the Type Approval are complied with. Refer to the Class Programme DNV-CP-0338, Sec.4.

To check the validity of this certificate, please look it up in <https://approvalfinder.dnv.com>