



CERTIFICATE NUMBER
18-HS1776035-PDA

DATE
14 Sep 2018

ABS TECHNICAL OFFICE
Houston Materials

CERTIFICATE OF

Design Assessment

This is to certify that a representative of this Bureau did, at the request of

INNOVATIVE MANUFACTURING INC.

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: **Shielding, oil from source of ignition**

Model: **IM 2002 (Oil Spray Protection Tape)**

This Product Design Assessment (PDA) Certificate 18-HS1776035-PDA, dated 14/Sep/2018 remains valid until 13/Sep/2023 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

AMERICAN BUREAU OF SHIPPING

Dustin De Los Santos

Dustin De Los Santos

Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, Standards, or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its commissioned clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by the terms and conditions as contained in ABS Rules 1-1-AN 5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2016).

ABS28(010)

INNOVATIVE MANUFACTURING INC.

861 DERWENT WAY

DELTA BRITISH COLUMBIA

Canada V3M5R4

Telephone: 604-876-4749

Fax: 604-876-4749

Email: gail@innovativemfg.ca

Web: www.marinetapes.com

Tier: 2 - PDA Issued

Product: Shielding, oil from source of ignition

Model: IM 2002 (Oil Spray Protection Tape)

Intended Service:

Marine and Offshore Applications.

Description:

Aluminum/Fibreglass Cloth Jacketing System used for screening or shielding of Pipe Joints and Fittings in systems for Fuel Oil, Lubricating Oil and other flammable Oils to prevent the spray of flammable Oils coming into contact with hot surfaces in Machinery Rooms in the event of a leak.

See attached document for additional information.

Rating:

Maximum Temperature (Fluid Temperature): up to 150°C (300° F).

Maximum Fluid Pressure (in the Piping System): 2 N/mm² (300 psi).

NoSpray Protection System - Tape & Sheet: 35 mm width x 10 m length, 50 mm width x 10 m length, 140 mm width x 10 m length, 250 mm width x 10 m length, 500 mm width x 10 m length, 1000 mm width x 10 m length.

Aluminum/Fibreglass Tape-Total Thickness 9.5 mm.

Service Restriction:

Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

Comments:

- The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
- The installation is to be carried out in accordance with the Manufacturer's Instructions.
- Use is limited to piping which are easily accessible. Visual inspection of the installed tape for integrity is to be carried on a regular basis. Tape once applied is not to be reused and new tape is to be installed when the tape is removed for maintenance purposes.
- Manufacturer's recommended Storage conditions for new tape is 21°C (70°F) and 50% relative humidity. Please refer to attached "pdf" Manufacturer's Technical Brochure for additional details.

Notes/Drawing/Documentation:

Drawing No. Correspondence, Signed Innovative MFG Reval HS367718 - TA_PDA Quote, Revision: -, Pages: -

Drawing No. Correspondence, Email Correspondence Project 4144708, Revision: -, Pages: -

Drawing No. Correspondence, Signed Request for Design Assessment, Revision: -, Pages: -

Drawing No. Signed Declaration of Conformity, Signed Declaration of Conformity, Revision: -, Pages: -

Previous review:

Supporting Data:

* MSDS, dated 08 Jan 2013, NoSpray Tape; 3 Pages;

* DNV Survey Report PP042629, Dated 25 February 2013, Witness of Leakage Test for "NOSPRAY" Protective Tape of Sheet, 4 Pages;

* Chemsultants Project 13-147, Report 2 Physical & Adhesive Properties of PSA Sheet, Dated 19 March 2013, 3 Pages;

* SwRI Final Report, 01.06061.01.612, Fire Performance Evaluation of " No Spray Protection System" dated January 2013, 17 Pages;

Terms of Validity:

This Product Design Assessment (PDA) Certificate 18-HS1776035-PDA, dated 14/Sep/2018 remains valid until 13/Sep/2023 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

INNOVATIVE MANUFACTURING INC.

861 DERWENT WAY

DELTA BRITISH COLUMBIA

Canada V3M5R4

Telephone: 604-876-4749

Fax: 604-876-4749

Email: gail@innovativemfg.ca

Web: www.marinetapes.com

Tier: 2 - PDA Issued

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

STANDARDS

ABS Rules:

2018 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-6-5/3.3.6;

National:

NA

International:

SOLAS Consolidated Edition 2014, Section II-2/4.2.2.5.3

IMO Resolution MSC 61(67) (Dec 1996)

Government:

NA

EUMED:

NA

OTHERS:

NA