

Certificate No: **TAF0000D9**

Head of Section

TYPE APPROVAL CERTIFICATE

This is to certify: That the Surface Material of Low Flame Spread with type designation(s) Anti-Splash Tape Issued to **DeWAL Industries, Inc.** Narragansett RI, United States is found to comply with DNV GL statutory interpretations DNVGL-SI-0364 - SOLAS interpretations **DNV GL offshore standards** DNV GL rules for classification - Ships **Application:** Approved for use as low flame spread surface material, not generating excessive quantities of smoke nor toxic products in fire. This certificate is recognized by Transport Canada. Product approved by this certificate is accepted for installation on all vessels classed by DNV GL. This Certificate is valid until 2021-09-05. Issued at Hamburg on 2016-09-06 for **DNV GL** DNV GL local station: New York Approval Engineer: Marius Mørner **Antje Fleischhauer**

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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.

Job Id: **262.1-022736-1** Certificate No: **TAF00000D9**

Product description

"Anti-Splash Tape"

Consisting of aluminium foil, glass fabric and silicone adhesive.

Nominal tickness: 0.18 mm (0.0071 inches)

Colour: Silver

Nominal density: 2734 kg/m³

Application/Limitation

Approved for use on a metallic substrate with thickness of at least 2.38 mm.

Any adhesive used, other than the one used during testing, has to be tested for low flame spread characteristics according to IMO 2010 FTP Code part 5.

The product satisfies the requirement for maximum calorific value (ref. SOLAS Reg. II-2/5.3.2.2) without further testing.

Each product is to be supplied with its manual for installation and use.

Type Approval documentation

Certification in accordance with Class Program DNVGL-CP-0338, October 2015.

Test report no. 01.16920.02.051, dated 2012-06-24, issued by Southwest Reseach Institute, Texas, USA.

Tests carried out

Tested according to IMO FTPC Part 5 and Annex 2 item 2.2 and in compliance with IMO 2010 FTP Code Ch. 8.

Marking of product

The product or packing is to be marked with name of manufacturer and type designation.

Transport Canada Approval

Based on the procedures laid down in the Transport Canada Publication entitled "Approval Procedures for, Life Saving Equipment and Structural Fire Protection Products (TP 14612)", DNV GL confirms that the product/s listed in this certificate is/are in accordance with Transport Canada's requirements.

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.

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Lloyd's Register North America, Inc.

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 T + 1 732-404-0222

 15 Ray Trainer Drive
 F + 1 732-404-0225

 Narragansett
 E graeme.hyde@lr.org

 RI, 02882
 http:\\www.lr.org

Your ref Dewal Industries Inc. Our ref Q/ATSO/17-698

Dewal Anti-Splash Tape

13 February 2018

Dear Mario Galindo

This is to confirm that the application received from De Wal Industries Inc. of 15 Ray Trainor Drive Saunderstown, R.I., 02874, USA is being processed and as per procedures the existing Type Approval Certificate for Dewal Anti Splash Tape No. 12/6001 Issued 20 December 2012 Expiry 19 December 2017 remains valid.

Place of Production: Dewal Industries, 15 Ray Trainor Drive, Narragansett, RI

Description: Dewal Anti-Splash Tape

Types: D/W-407 Aluminium Foil/Glass Fabric/Silicone Adhesive

Application: Fire Protection – Engine Rooms

Specified Standards: SOLAS 74 as amended, Chapter II-2 Regulation 4

IMO Resolution MSC.61(67), Annex 1, Part 5, Resolution A(653)16



Graeme A. Hyde Americas Type Approval – Business Development Manager Lloyd's Register North America Inc.



Type Approval Certificate

This is to certify that the under noted product(s) have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

This certificate is issued to:

PRODUCER

Dewal Industries

15 Ray Trainor Drive

Narragansett, RI

02882

United States

PLACES OF PRODUCTION

Dewal Industries

15 Ray Trainor Drive Narragansett, RI

02882

United States

DESCRIPTION

Dewal Anti-Splash Tape

TYPES

D/W-407 Aluminium Foil/Glass Fabric/Silicone Adhesive

APPLICATION

Fire Protection - Engine Rooms

SPECIFIED

- SOLAS 74 as amended, Chapter II-2, Regulation 4

STANDARDS

- IMO Resolution MSC.61(67), Annex 1, Part 5, Resolution A(653)16

OTHER CONDITIONS

Installation of this product for marine applications is to be in accordance with the Rules and Regulations for the Classification of

Ships.

"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register of any modification or changes to the equipment in order to obtain a valid certificate."

The Design Appraisal Document No. 12/60011 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Certificate No.

12/60011

Issue Date

20 December 2012

Expiry Date

19 December 2017

Sheet

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Lloyd's Register Canada Limited

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中国船级社

CHINA CLASSIFICATION SOCIETY

证书格式号/Form: W01.02-

HQ002368

工厂认可证书 CERTIFICATE OF WORKS APPROVAL

证书编号/Certificate No. NY16W00004

兹证明本证书所述制造厂具备按照下列标准的要求生产本证书所列产品的能力和条件。

This is to certify that the manufacturer stated in the certificate meets the requirements of the standards listed below and is available with the ability and conditions to produce the products as described in the certificate.

制造厂/ Manufacturer

Dewal Industries Inc.

15 Ray Saunderstown R. I. 02874, USA

认可产品/ Product Approved

防溅胶带

Anti-Splash Tape (Fire Protection-Engine Rooms)

附加标志/ Notations

无/Nil.

认可标准/ Approval Standard

1.1974 年国际海上人命安全公约及其修正案第II-2章第4条 Regulation 4, Chapter II-2 of International Convention for the Safety of Life at Sea, 1974, as Amended 2.IMO 2010年《国际耐火试验程序应用规则》附件 1, 第 5 部分 Part 5, Annex 1 of IMO 2010 FTP Code

证书有效期至/ This Certificate is valid until

2017年7月26日 / Jul. 26, 2017

发证机构

中国船级社纽约办事处

CCS New York Office

签发日期

2017年2月27日

Issued by

本证书根据中国船级社《钢质海船入级规范》及有关程序规定签发。关于证书的有关规定见本证书页背面的说明。当本证书包括多页纸张时,则所有证书页为一个整体,必须同时使用。每一页证书均须由本社盖章方为有效。证书复印件无效。任何单位和个人均不应摘录或节选本证书的部分内容。本认可证书不代表本社对个体产 品质量的检验。有关各方对所持证书的真实性有疑问时,可以向我社检验机构咨询。

This Certificate is issued pursuant to the Rules for Classification of Sea-going Steel Ships and related procedures of the Society. Refer to the back of the certificate requirements of the certificate. When the certificate consists of more than one page, all pages of the certificate are taken as a whole and are used simultaneously. No certificate page is valid without bearing the stamp of the Society and no copied form of the certificate is regarded as valid. Any part of the certificate is not to be extracted or abridged by any unit or individual in any form. This approval certificate does not constitute the inspection of the Society about the quality of the unit/batch product. Related parties who are picity of the certificate may inquire of the Society or its offices.



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NY51403660

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产品明细/ Product Description

防溅胶带/AntiSpray Tape 产品规格/Product code

: D/W-407 铝箔/玻璃纤维/有机硅粘合剂 | D/W-407 Aluminium Foil/Glass Fabric/Silicone Adhesive

产品尺寸/Dimension

; 35mm*10m;50mm*10m;100mm*10m;140mm*10m;250mm

材料/Material

,铝箔/玻璃纤维/有机硅粘合剂 | Aluminium Foil/Glass Fabric/Silicone Adhesive

设计压力/Design pressure

:最大工作压力 :2.0MPa | Max.Pressure :2.0MPa

温度范围/Temperature range

: ≤260 摄氏度/℃

图纸批准号/ Drawings Approval No.

批准的图纸和设计计算书/ Approved Drawings and Design Calculations

NTL.

产品认可试验报告/Approval Test Report

试验报告编号/Test Report No.

01. 16920. 02. 051

试验报告日期/Test Report Date

2012-07-24

试验单位/Laboratory

SOUTHWEST RESEARCH INSTITUTE

试验单位地址/ Test Address

6220 CULEBRA ROAD SAN ANTONIO TEXAS USA

产品适用范围/Application of the Product

用于机舱管系、接头、阀门等包覆,防止可燃液体喷溅/Fire Protection-Engine Rooms

认可保持条件/ Maintenance Requirements of Approval

1. 工厂认可后,如果图纸、技术文件、工艺规程有较大改变,应征得本社同意。若改变涉及或影响到产品的设计、主要制造材料、关键工艺或产品的特性、特征,则与特性有关的图纸和技术文件应经过本社审批,并在检验机构认为必要时,经本社检验人员到厂进行检查和见证有关试验,其结果应能证实仍符合认可条件。 After works approval, if there are any major changes to the drawings, technical documents,

specifications, prior consent should be obtained from the survey office of the Society. If the changes involve or affect product design, major construction materials, key workmanship or product characteristics and properties, drawings and technical documents related to properties are to be examined and approved by the Society and, where deemed necessary by the survey office, the surveyor to the Society will go to the manufacturer to inspect or witness relevant tests and the results of the tests should be able to demonstrate compliance with the approval conditions 2. 工厂的质量管理体系应保持有效运行,并且与认可时一致。如果质量管理体系发生改变,应经原体系认证机构审核并报本社批准。

The quality management system of the factory shall be ensure effective operation, and shall be the same as the situation of approval. If there are any changes to the quality management system, auditing of the original certification organization for quality management system and the society's approval

shall be obtained.

3. 工厂认可证书获得者应接受本社每年一次的定期审核,定期审核日为认可证书期满之日对应的每一周年日,检查工作可在定期审核日的前后三个月内进行。Those who have obtained the certificate of works approval shall receive periodical audit done by the Society on an annual basis. The date of periodical audit shall be each anniversary date which corresponds to the date of expiry of the relevant certificate and the periodical audit may be done within a time span of three months before and after the annual

surveillance date. 4. 在认可证书有效期内,本社检验人员可在未经事先通知的情况下对工厂的产品制造过程进行审核,以验证产品的生产是否符合业经本社批准的图纸和文件。工厂应予以配合。

Within the validity of the approval certificate, the surveyor to the Society may pay unannounced audit to the manufacturing process of the product in order to confirm whether it is in compliance with the drawings and documents approved by the Society. The factory should provide an active cooperation and necessary for the surveyor.

5. 认可证书有效期内, 如果出现可能导致本社暂停或撤消认可的情况, 工厂应及时采取有效的纠正措施。

Within the validity of the approval certificate, if cases occur that may cause the Society to suspend or withdraw the certificate, the manufacturer should take corrective actions in a prompt and effective manner.

认可后的产品检验方式/ Module of Product Inspection after Works Approval

按照规范只认可不进行产品检验的产品/The product approved only in term of the rules: 认可后的产品检验由制造厂按本社批准的产品检验计划进行检验,经检验合格后由制造厂签发合格证明,并连同诊品的本社认可证书复印件一并交付用户,制造厂对产品符合公约、法规、本社规范和本社认可的标准规定负责。 After approval, product inspection should be carried out by the Manufacturer in accordance with the



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product inspection scheme approved by the Society. Upon satisfactory inspection, and the Quality Certificate issued by the Manufacturer should be provided to the purchaser together with the copy of the approval certificate issued by the Society. The manufacturer should take responsibility for the product being in compliance with the convention, statutory regulation, the Society rules and the standard accepted by the Society.

对于原材料和零部件的检验要求/ Inspection Requirements for Materials and Components

产品如下原材料和零部件应由本社认可的制造厂生产/The following materials and components of the product should be manufactured by the factory approved by the Society:

无/Nil.

产品如下原材料和零部件应经本社检验/The following materials and components of the product should be inspected by the Society:

无/Ni1.

产品如下原材料和零部件的制造厂清单,经本社批准方可变更/The list of manufacturer for the following materials and components of the product should not be changed without the Society's approval:

无/Nil.

责任声明/Statement of Responsibility

本社的认可不影响、替代与本社授权或检验无关的各方对上述工厂的认可和发证,并且不对与本社授权或检验无关的各方负责,不承担其未经应允而承认、接受本社认可所导致的法律和经济责任。

The approval of the Society does not affect and replace any approval and certification of the manufacturer by any parties that bear no relation with this Society's authorization or survey and therefore takes no responsibility for these parties. The Society does not undertake any legal and economic liabilities arising from accepting this Society's certificate without prior permission from this Society.

其他/Others

本社已审核了产品厂无石棉声明,但本社的审核不免除产品厂按照合同关系向订货方保证产品无石棉的责任。The declaration of asbestos-free submitted by manufacturer has been reviewed by the Society. However, liability of the manufacturer to guarantee the products are asbestos-free to purchaser under contract will not be exempted.

中国船级社纽约办事处

CCS New York Office

*****本证书正文完/ End of Text****





