DNV·GL

Certificate No:
TAP00001SV

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Oil spray protection system

with type designation(s)
NF, NF 2

Issued to
H.D. Service Co., Ltd.
Busan, Republic of Korea

is found to comply with
DNV GL rules for classification – Ships

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Type:	**Max. working press.:**
NF	**18**
NF 2	**22**

Issued at **Høvik** on **2019-03-11**
This Certificate is valid until **2024-03-10**.
DNV GL local station: **Gimhae Station**

for **DNV GL**

Approval Engineer: **Ole Henrik Kverndal Pedersen**

Torill Grimstad Osberg
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.

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Job Id: **262.1-029736-1**
Certificate No: **TAP00001SV**

Places of production

H.D. Service Co., Ltd.
YoonCheon Bldg 2F, 16-12
Jungang-daero 1810beon-gil,
Dong-gu,
Busan,
Republic of Korea

C.S.C. Co. LTD
56,
Seangnim-daero 928beon-gil,
Saengnim-myeon,
Gimhae-si
Gyeongsangnam-do

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.

Technical data TF:
Construction: Al-Sheets - Stainless steel net - Adhesive - Backing Film
Size: 0.34[mm] (T) x 35/50/120/250/500[mm] (W) x 10[m] (L)
Design Pressure: 18 [bar]
Design Temperature: 150 [°C]

Approval Standard TF:
KS A 1107:2002 / KS M 3734:2001/ KS M 7082 : 1997 / GM 9070P

Technical data TF2:
Construction: Al-sheet – adhesive (modified silicon) – glass cloth – adhesive – Al-sheet – adhesive - backing film;
Total thickness: 360 ± 60 [µm]
Sizes: 35, 50, 100, 140, 250, 500 [mm]
Design pressure: 22 bar;
Design Temperature: 150°C
Media: heavy oil, light oil, lubricating oil

Approval Standard TF2:
FMVSS302 (or ANSI/UL94-2003); KS M3734:2011; KS T 1028:2009 and acc. to manufacturer's specifications.

Application/Limitation

A drain hole is to be provided to ensure that in case of a leakage oil spray will be avoided and that the oil will be drained to a safe position.
The Anti-Splashing Tape of type NF Tape is approved for screening of pipes and fittings as required by SOLAS II-2, Reg. 4 - 2.2.5.3 and DNV GL Rules Pt.4 Ch.1 Sec.3 [1.4.4].

Type Approval documentation

Marking of product

-Manufacturer's Name & Product Type.

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 Programme DNVGL-CP-0338, Section 4.