DNV·GL

Certificate No:
MEDB000017R

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive (EU) 2015/559, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate.
This Certificate is issued by DNV GL AS under the authority of the Government of the Kingdom of Norway.

This is to certify:

That the Non-combustible materials

with type designation(s)
FireMaster Marine Plus Blanket

Issued to
Thermal Ceramics UK Ltd
WIRRAL MERSEYSIDE, United Kingdom

is found to comply with the requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/3.13 and Annex B, Module B in the Directive; SOLAS 74 as amended, Regulation II-2/3 II-2/5, II-2/9 & X/3, 2000 HSC Code 7 and IMO 2010 FTP Code

Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2021-07-23**.

Issued at **Høvik** on **2016-07-24**

for **DNV GL AS**

DNV GL local station:
Manchester

Approval Engineer:
Helge Bjørnarå

Notified Body
No.: **0575**

Vidar Dolonen
Head of Notified Body

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Product description

"FireMaster Marine Plus Blanket"
insulation blanket made from non-combustible alkaline earth silicate fibres.

- Thickness range: 6 mm to 65 mm
- Density range: 44 kg/m^3 to 128 kg/m^3

The insulation material FireMaster Marine Plus may incorporate a water repellent treatment.

"FireMaster Marine Plus Blanket Alu 35"
insulation material FireMaster Marine Plus Blanket faced on one side with 0,035 mm aluminium foil. The foil is glued to the blanket with a sodium silicate adhesive.

"FireMaster Marine Plus Blanket Alu 20 R"
insulation material FireMaster Marine Plus Blanket faced on one side with 0,02 mm aluminium foil with a glass fibre net type RG 2/2. The foil is glued to the blanket with a polyethylene adhesive.

"FireMaster Marine Plus Blanket GC"
insulation material FireMaster Marine Plus Blanket faced on one side with a glass fibre fabric from Porcher Industries. The glass fibre fabric is glued to the blanket with a silica based adhesive.

Application/Limitation

Approved for use as non-combustible materials.

Not to be use as an integrated part of fire retarding division, unless tested as such.

Insulation material with surface layer have to be approved for low flame spread characteristics (test for surface flammability) according to the Marine Equipment Directive and bear the Mark of Conformity.

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

Type Examination documentation

Test reports No. 2006CS012672/1 dated 22 August 2006, No. 2006CS012672/2 dated 24 August 2006, No. 2006CS012672/3 dated 25 August 2006 (with Supplement dated 6 October 2006), No. 2006CS012672/4 dated 28 August 2006 (with Supplement dated 6 October 2006), No. 2006CS012672/5 dated 4 September 2006 and No. 2011CS012615 dated 26 September 2011 from RINA, Italy.

Test report No. 334864 dated 28 November 2013 from Exova Warringtonfire, Warrington, UK.

Tests carried out

Tested according to IMO FTPC Part 1 and Part 5 and Annex 2 item 2.2 and in compliance with the IMO 2010 FTP Code Ch. 8. Test report No. 334864 was tested according to IMO 2010 FTP Code Part 1.

Marking of product

The product or packing is to be marked with name of manufacturer, type designation, MED Mark of Conformity and USCG approval number if applicable (see page 1).