



# TYPE APPROVAL CERTIFICATE

Certificate No:  
**TAE00001K2**  
Revision No:  
**2**

## This is to certify:

**That the Fire Protective Systems for Cables**

with type designation(s)  
**HENSOMASTIK 5 KS**

Issued to

**Rudolf Hensel GmbH**  
**Börnsen, Germany**

is found to comply with

**DNV rules for classification – Ships, offshore units, and high speed and light craft**

## Application :

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

Issued at **Hamburg** on **2022-04-26**

for **DNV**

This Certificate is valid until **2027-04-25**.

DNV local station: **Hamburg**

Approval Engineer: **Carsten Hunsalz**

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**Arne Schaarmann**  
**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.

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.



Form code: TA 251

Revision: 2021-03

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## Product description

"Hensomastik 5 KS"  
Ablative fire protective coating for cables.  
Average thickness of coating 1.0mm.

## Application/Limitation

Precautions against fire spreading in cable bunches:

The cable or the bunched cables to be coated on all sides. In enclosed and semi-enclosed spaces cable runs to be coated at least 1 metre in every 14 metres for horizontal runs and to entire length of vertical runs.

Fire resistant properties acc. IEC 60331-21:

The fire resistant installation is limited for cables with an overall diameter not exceeding 20 mm and of following types:  
NYY-J 3x2,5 / 5x1,5 N2XH-J 5x1,5 H07RN-F SG 1,5 MPRXCX 3x2,5 / 3x4 / 3x16

This approval is only valid for coating applied by Rudolf Hensel GmbH or according to Rudolf Hensels' application instructions.

Approved for use as an ablative fire protective coating on indoor and outdoor cables.

## Type Approval documentation

Certification in accordance with Certification Note No. 1.2, Type Approval, December 1996.  
Tested according to Category A of IEC publication 332-3, 1982.  
Test report No. U97 087 dated 15 January 1998 from iBMB, Braunschweig, Germany.  
Retention survey report dated 06.06.13.  
Test reports included in E-Mail sent by Rudolf Hensel GmbH, dated 2016-10-21

## Tests carried out

IEC 60332-3-22 (Cat. A): 2018, IEC 60331-21:1999

## Marking of product

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

## Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine Tests (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE