



TYPE APPROVAL CERTIFICATE

Certificate no.:
TAK00000TS
Revision No:
2

This is to certify:

that the **Insulation Materials for Gas Carriers**

with type designation(s)
Divinycell CY - Series

issued to

DIAB International AB
Laholm, Sweden

is found to comply with

Gaztransport & Technigaz Specification Nr. M3504, Insulating Material, Rev. A, January 2007

Application:

For use in No. 96 type LNG carriers built under GTT's license.

Issued at **Hamburg** on **2023-12-27**

This Certificate is valid until **2028-12-26**.

for **DNV**

DNV local unit: **Denmark CMC**

Approval Engineer: **Joachim Rehbein**

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 281

Revision: 2023-09

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Product description

Divinycell CY – Series: Rigid and closed cell co-polymer foam.

Approved variants

	Test method	Unit	Divinycell CY33	Divinycell CY55
Nominal density	ISO 845	Kg/m ³	38	60
Thermal conductivity	ASTM C 518	W/mK	<0.030	<0.030

Assessed production site

DIAB New Materials (Zhanjiagang) Co., Ltd.
No. 66 Nanhai Road, Yangtze River Industrial Park
215634 Zhangjiagang, Jiangsu Province
China

Application/Limitation

The Rigid Insulating Material (RIM) Insulating type (IT) is approved for use in No. 96 Cargo Containment Systems built under licence from GAZTRANSPORT & TECHNIGAZ SAS (GTT).
Deliveries to actual shipbuilding projects shall be in compliance with the “Insulating Material”, GTT Technical Specification Nr. M3504, revision A.

Any significant changes in design and / or quality of the material will render the approval invalid.

Type Approval documentation

Tests carried out

According to type approval documentation.

Marking of product

Product shall be marked with *manufacturer's name* and *type designation*. *dimensions*, *batch no.* and *storage instructions*.

The marking is to be carried out in such a way that it is visible, legible, and indelible. The marking of product is to enable traceability to the DNV Type Approval Certificate.

Periodical assessment

The scope of the Periodical Assessment is to verify the conditions stipulated for the Type Approval, non-class, is complied with and no alterations are made to the product design or choice of materials.

Periodical Assessment has to be performed in accordance with Class Programme CP-0338.

This certificate is only valid if required periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in <https://approvalfinder.dnv.com>

END OF CERTIFICATE