



# TYPE APPROVAL CERTIFICATE

Certificate no.:

Revision No:

with type designation(s)

issued to

is found to comply with

Issued at on

This Certificate is valid until

DNV local unit:

Approval Engineer:

for



Digitally Signed By:  
Martin Wenning  
Location: DNV Hamburg,  
Germany

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 USD 300 000.



*Legends:*

E: E-Glass

R: Roving

13: Nominal filament diameter,  $\mu\text{m}$

2400, 3000: Weight per unit length, tex

180: Sizing code

The roving complies with the applicable requirements of DNV and is compatible to the laminating resin.

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

1. Assessment Report from DNV Shanghai of 2024-10-29.
2. ISO 9001 Certificate, DEKRA Registration No. 20319142/1-1.
3. Jushi Group Co., Ltd. Testing Center, Report Nos. BG241011105 Rev.A (ER13-2400-180), BG241011106 Rev.A (ER13-3000-180) of 2024-10-11.
4. Assessment Report from DNV GL Shanghai of 2019-05-10.
5. Letter from Jushi Group Co., Ltd. of 2019-05-10 (Declaration).
6. Testing Center, Jushi Group Co., Ltd., Report Nos. BG190304102 (ER13-2400-180), BG190304103 (ER13-3000-180) of 2019-03-25.
7. ISO 9001 Audit Report (DEKRA).
8. Application for Type Approval of 2019-03-25.
9. Email from DNV GL Shanghai of 2015-05-05, including Assessment Report of 2015-05-05 and Application Letter from Jushi of 2015-01-29.
10. Email from DNV Shanghai of 2011-05-09, including Survey Report of 2011-05-09, Declaration of Conformity from Jushi of 2011-04-08, Application Letter from Jushi of 2011-04-08 and DNV Approval Documents 2011 issued by Jushi. Test Report Nos. BG110402001, BG110402002 and BG110402003 of 2011-04-02

Type Testing carried out in accordance with

Product shall be marked with *manufacturer's name*:

and *type designation*.

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.

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

Periodical assessments (for Certificate Retention / Certificate Renewal) shall be performed according to DNV-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://approvafinder.dnv.com>

END OF CERTIFICATE