



Certificate no.:
TAK00002MV

TYPE APPROVAL CERTIFICATE

This is to certify:
that the Prepreg Materials

with type designation(s)
DS070

issued to
Delta Preg S.p.A.
Sant'Egidio Alla Vibrata, TE, Italy

is found to comply with
DNV class programme DNV-CP-0431 – Type approval – Prepreg materials

Application:
Manufacturing of FRP laminates.

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

Issued at **Hamburg** on **2026-01-15**
This Certificate is valid until **2031-01-14**.
DNV local unit: **Italy/Malta CMC**

for **DNV**

Approval Engineer: **Gisle Hersvik**

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.

Product description

DS070: a prepreg system made from fibre impregnated with epoxy.

- Curable in Autoclave and Out of Autoclave (OoA) vacuum bag only (VBO).
- Cure temperature: 70 - 120 °C

The approval covers product combinations within the ranges specified:

Resin system	DS070		
Fibre type	Carbon		Glass
Reinforcement style	Woven fabric	Non-Crimp	UD
Reinforcement weight	150 g/m ² - 1400 g/m ²		
Resin content	30% - 60%		

List of product combinations giving an indication of which variants that are provided by the manufacturer:

Prepreg GG400X(T700S)-DS070-42 ME VI (H 127 cm) SP GG430T(T700)-DS070-42 ME VI (H 125 cm) SP GG430T/GG400X-DS070-52 ME (H 125 cm) GG430T/GG400X-DS070-42 ME (H 125 cm) GG200T(T300)-DS070-42 ME VI (H 125 cm) GG300X(T700)-DS070-42 ME VI (H 127 cm) GG315T(T700)-DS070-40 ME VI (H 125 cm) VV400X-DS070-38 ME VI (H 127 cm) T700(24K)-150-DS070-36 EF (H 60 cm) PP090-DS070-45 ME (H 125 cm)	Adhesive Film – Bonding to Honeycomb core FA010 SUPPORTED (max. 300 g/m ²) FA010 UNSUPPORTED (max. 300 g/m ²) Surface Film FS015HT SUPPORTED (max. 300 g/m ²) FS015HT UNSUPPORTED (max. 300 g/m ²)
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Please consult the manufacturer with respect to sourcing the right product combination for the relevant application.

DS070 is fully compatible and co-curable with the surfacing film FS015HT and the adhesive film FA010.

FA010 is a black pigmented toughened epoxy adhesive film.

FS015HT is a high viscosity filled epoxy thermoset resin available as surface film.

Place of manufacture

DELTA PREG S.P.A., Località Bonifica del Tronto, 64016, Sant'Egidio alla Vibrata (TE), Italy

Application/Limitation

The prepreg complies with the applicable requirements of DNV and is compatible with the core materials.

Manufacture of FRP-components for maritime applications and rotor blades within wind energy (ref. DNV-ST-0376, observing any additional test requirements).

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

Type Approval documentation

Tests carried out

Type Testing carried out in accordance with **Type Approval documentation**. Testing includes tensile strength, compressive strength, in-plane shear strength, interlaminar shear strength, water retention strength and DMA.

Marking of product

Product/package shall be marked with *manufacturer's name*, *production date/batch number* 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.



Job ID: **262.1-044475-1**
Certificate no.: **TAK00002MV**

Periodical assessment

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://approvalfinder.dnv.com>

END OF CERTIFICATE