

# TYPE APPROVAL CERTIFICATE

**This is to certify:****That the Hatch Cover Slide Pads**with type designation(s)  
**SPT-O**

Issued to

**Shanghai Saipote Composite Material Technology Co., Ltd.  
Shanghai, China**

is found to comply with

**DNV GL rules for classification – Ships****GL Rules for Classification and Construction II - Materials and Welding****Application :****Bearing pad for hatch covers****Product(s) approved by this certificate is/are accepted for installation on all vessels classed  
by DNV GL.**Issued at **Hamburg** on **2017-06-23**This Certificate is valid until **2021-08-31**.DNV GL local station: **Shanghai**for **DNV GL**Approval Engineer: **Joachim Rehbein**

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**Thorsten Lohmann  
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.



Job Id: **262.1-025495-1**  
Certificate No: **TAS000013C**

### **Product description**

SPT-O Fibre reinforced thermosetting resin incorporating solid lubricants.

### **Application/Limitation**

|                    |                                                                                                                                                          |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lubricants         | - Dry                                                                                                                                                    |
| Operational Limits | Permissible surface Pressure:<br>- Nominell bearing pressure up to 25,0 MPa<br>- Max. allowable bearing pressure up to 35,0 MPa against stainless steel. |
| Dimensions         | According to DNVGL approved drawings                                                                                                                     |
| Limitations        | Any significant changes in design and/or quality of the material will render the approval invalid.                                                       |

### **Type Approval documentation**

#### **Tests carried out**

Production quality tests

#### **Marking of product**

Product shall be marked with manufacturer's name and type designation.

#### **Periodical assessment**

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

Periodical assessments will be carried out bi-yearly (Certificate Retention) and at renewal after 5 years (Certificate Renewal).

When possible, this assessments may be harmonised with normal surveys for product certification and / or other surveys and audits carried out.

END OF CERTIFICATE