

# TYPE APPROVAL CERTIFICATE

**This is to certify:****That the TBT-Free Anti-Fouling System**with type designation(s)  
**OCEAN JET ANTIFOULING**

Issued to

**Corporación Peruana de Productos Químicos S.A. - CPPQ**  
**Av. Cesar Vallejo 1851, El Agustino, Lima, Peru**is found to comply with  
**DNV GL class programme DNVGL-CP-0110 – Type approval – Anti-fouling systems****Application :****Organotin-free self smoothing anti-fouling system****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**Issued at **Hamburg** on **2018-10-01**This Certificate is valid until **2023-06-30**.for **DNV GL**DNV GL local station: **Lima**Approval Engineer: **Christine Löll**

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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.



## Product description

Organotin-free self smoothing anti-fouling paint:

- **OCEAN JET ANTIFOULING**

### Colours:

The product may be available in various colours. Please contact the local CPPQ representative for details.

### Active ingredients:

Copper(1)oxide (CAS No. 1317-39-1)

## Manufactured by:

**Corporación Peruana de Productos Químicos S.A. – CPPQ**

Av. Cesar Vallejo 1851, El Agustino, Lima, Peru

DNV GL local office: Lima

## Responsibility

The Company (stated on the front page of this Certificate) takes the responsibility that both design and production are in compliance with Rules, Standards and/or Regulations listed on page 1 of this certificate.

## Application/Limitation

The issuance of this certificate is solely connected to the control of the Anti-Fouling System, AFS, with regard to compliance with the International Convention on the Control of Harmful Anti-Fouling Systems on Ships.

It does not cover verification of surface preparation, corrosion protection, fire, health and safety precautions, durability of the AFS or environmental properties other than regulated by the Convention.

## Type Approval documentation

### Tests carried out

Type Testing carried out in accordance with Type Approval documentation, with the following test results (Test Certificate No. MC-PE2009.030 from Germanischer Lloyd "Analysetechnik", Germany of 2009-03-30):

- **OCEAN JET ANTIFOULING:** 0,76g/kg tin (Total Tin (Sn) in Dry Paint)

## Marking of product

Product/package shall be marked with manufacturer's name and address, type designation and date of production/batch number.

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 GL Type Approval Certificate.

## 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.



Job Id: **262.1-029788-1**  
Certificate No: **TAK00001CF**

Periodical Assessment to be performed after 2 and 3.5 years (Certificate Retention) and at renewal after 5 years (Certificate Renewal).

The main elements of the Periodical Assessment are to:

- Ensure that Type Approval documentation is available.
- Review design, materials, production process, and performance with respect to possible changes, in order to ensure compliance with Type Approval documentation and/or referenced material specifications.
- Ensure traceability between manufacturer's product marking and the DNV GL Type Approval Certificate.

END OF CERTIFICATE