



# Corrosion protection at GL

## First-class support in protecting your assets

### A challenge to your business

Corrosion and corrosion protection is an essential issue in the maritime industry. The use of a variety of materials, mainly unalloyed steel, in combination with salty air and seawater inevitably leads to extremely high levels of corrosion if adequate protection measures are not taken. In other words, proper corrosion protection not only means long-term cost-savings for your business but is also a safety-critical issue for certain areas of a ship's structure or offshore installation. The growing importance of corrosion protection is reflected in the focus placed on this issue by the International Maritime Organization (IMO) and the development of new standards in this field.

### The solution you need

To ensure efficient corrosion protection you need a strong and reliable partner with a great deal of experience and expertise in this field. Germanischer Lloyd (GL) is just such a partner. We can point to many years of experience in corrosion protection issues, for example with our own Rules for Corrosion Protection of Cargo Oil Tanks.

The services we offer in this field include:

- Cathodic corrosion protection through impressed current systems or sacrificial anodes
- Certification of coating systems, mainly for ballast water tanks but also for other areas like cargo tank coatings

- Certification and surveying of corrosion protection systems (incl. IMO PSPC)
- Certification and surveying of corrosion protection application procedures
- Damage investigation
- Seminars especially developed for the maritime industry focusing on practical aspects as well as the latest rules and standards
- Up-to-date laboratory equipment for testing coating systems

Moreover, GL also offers specific Class Notations – as clear quality proof that you are effectively protecting your maritime assets:

#### **Cargo Tank Coating (CTC) for Oil Tankers:**

- Monitoring of application conditions
- Intermediate inspection
- Documentation and certification

#### **In-Water Survey (IW):**

- Corrosion protection system and cathodic protection system surveyed for compliance with the respective GL Rules
- Corrosion protection system and cathodic protection system included in drawing approval



Corrosion protection – still manual work



Bulk cargo – a corrosion protection challenge

## GL – your best partner

Why choose GL for corrosion protection services? Our experience and expertise in maritime corrosion protection matters are second-to-none. And as one of the world's leading classification societies, you can rest assured that the support we provide in protecting your maritime assets will bring you a rapid return on investment. Moreover, thanks to our global network, we can always provide you with local support.

## Benefits that make all the difference

- More efficiency through testing, type approval and certification of coating systems from a single source of expertise
- Objective third party evaluation of coating applications according to GL's surveying and certification standards
- Fast damage investigation thanks to GL's worldwide presence and high level of expertise in this field
- Seal of quality: GL-certified products are accepted and acknowledged all over the world
- GL is the only IACS classification society recognised as a body for certifying coating inspectors according to international rules
- Time and money saved through GL's in-water surveys since a vessel does not need to go into dock – an advantage made possible by GL's worldwide presence
- Listing of certified companies on the GL website as a quality reference for your current and potential customers
- Reminder service to ensure corrosion protection certificates do not run out

### One-stop shopping at GL

You can save yourself time and money at our one-stop shop for coating certification – because we provide you with testing and certification from a single source. For example, you can combine corrosion protection services with **IMO PSPC certification for ballast water tanks** or have your personnel trained to be **certified coating inspectors** at seminars run by GL.

Please take an information tour on our homepage [www.gl-group.com/supplyindustry](http://www.gl-group.com/supplyindustry) for more one-stop shopping opportunities.

#### Germanischer Lloyd AG

Department Materials & Corrosion Protection

Brooktorkai 18 · 20457 Hamburg, Germany

Phone: +49 40 36149-685 · Fax: +49 40 36149-7325

corrosion@gl-group.com · [www.gl-group.com/corrosion](http://www.gl-group.com/corrosion)