

Confidence below the surface

Independent coatings and materials testing
for demanding marine and specialist
manufacturing environments.

**SAFER
GREENER
SMARTER**

In shipbuilding and marine engineering, long-term performance depends on the quality of both the protective coating system and the materials beneath it.

SGS provides independent coatings testing and metallurgy services to help manufacturers assess performance, investigate issues and support quality assurance across demanding applications.

From corrosion resistance and coating adhesion to mechanical testing, metallurgical examination and failure investigation, our technical experts provide the insight needed to support confident decision-making.

Our capabilities

Coatings testing

We offer comprehensive surface coating testing services to ensure the durability and performance of coatings on various surfaces as well as independent 3rd party verification.

- Protective coatings for maritime
- Site inspections and failure analysis
- Cathodic disbondment
- Autoclave testing – pressure testing
- Salt spray & cyclic weathering testing
- Pre-qualification of coatings
- Coatings testing
- Bespoke R&D projects

DNV Type and Lloyd's Register approval

- DNV and Lloyd's Register approval to perform testing on coating systems in accordance with two important International Maritime Organization (IMO) specifications:
 - i. IMO Resolution MSC.215(82) Performance Standard for Protective Coatings for Seawater Ballast Tanks
 - ii. IMO Resolution MSC.288(87) Performance Standard for Protective Coatings for Cargo Oil Tanks



Turnaround times

Testing started within 48 hours*



Certifications & Accreditations

- UKAS 17025
- Autoclave testing approved and certified by Saudi Aramco
- ISO 9001
- Cyber Essentials Plus
- JOSCAR registered supplier
- ADS Member

Case Study

The problem

- Selecting the correct high-durability coating systems for long term asset protection at sea, under the harshest of conditions

The solution

- Long term testing and evaluation of coating systems, with modified testing programs to closely match real-world scenarios

The outcome

- Confidence for the client in selection of proven, pre-qualified coating systems that will perform as required and protect the assets long-term

1 of only 3 laboratories in the world with DNV and Lloyd's Register Approval

Metallurgy services

We offer a wide range of qualified metal testing services, with state-of-the-art technology and experienced industry experts.

- Routine mechanical testing
- Fastener testing
- Tensile & routine testing
- Failure analysis including Scanning Electron Microscopy (SEM)
- Crack tip opening displacement (CTOD)
- Fracture toughness
- Pressure testing

98% on time delivery, **100%** commitment**

- We have carried out in house training on weldment inspection and interpretation at a naval dockyard to support their welding and inspection facility
- In situ metallurgical inspection on suspect weld defects during ship building which ultimately resolved potential issues to speed up fabrication

Talk to us about independent testing support for your marine materials and coatings requirements.

Turnaround times (TAT) consistently **decreased** by using our fast-track service and thereby improving client production activities

*The sample will begin processing within 48 hours of arrival at the laboratory and will be tested in line with the client's requested protocol or the applicable regulatory standard.

**Coatings laboratory, Kestrel Road, Manchester.

