INTERNATIONAL STANDARD

ISO 16145-5

First edition
2014-04-15

Ships and marine technology — Protective coatings and inspection method —

Part 5: Assessment method for coating damages

Navires et technologie maritime — Revêtements de protection et méthode d'inspection —

Partie 5: Méthode d'évaluation des dommages des revêtements

Reference number
ISO 16145-5:2014(E)

© ISO 2014



COPYRIGHT PROTECTED DOCUMENT

© ISO 2014

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

Page

Foreword ..... **iv**
Introduction ..... **v**
1 Scope **1**
2 Normative references **1**
3 Terms and definitions **1**
4 Abbreviated terms **2**
5 Assessment of coating damages **2**
Annex A (informative) **Approximate assessment of coating damages** **4**

© ISO 2014 – All rights reserved

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 8, *Ships and marine technology*, Subcommittee SC 8, *Ship design*.

ISO 16145 consists of the following parts, under the general title *Ships and marine technology — Protective coatings and inspection method:*

— *Part 1: Dedicated sea water ballast tanks*

— *Part 2: Void spaces of bulk carriers and oil tankers*

— *Part 3: Cargo oil tanks of crude oil tankers*

— *Part 4: Automated measuring method for the total amount of water-soluble salts*

— *Part 5: Assessment method for coating damages*

© ISO 2014 – All rights reserved

Introduction

The ISO 16145 series addresses qualified coating and inspection works in accordance with the requirements of IMO PSPC.

Technical Committee ISO/TC 8, SC 8 decided to standardize a coating and inspection method for the IMO PSPC series.

Coating quality itself depends largely on the surface preparation and coating application. Therefore, the right application of surface preparation and coating, in accordance with the coating manufacturer's recommendation including inspections at each step, are of vital importance.

This part of ISO 16145 is intended to serve as a standard for ship owners, shipyards, coating manufacturers, coating inspectors, and coating applicators in applying IMO PSPC in the new building stage.

© ISO 2014 – All rights reserved

Ships and marine technology — Protective coatings and inspection method —

Part 5: Assessment method for coating damages

1 Scope

This part of ISO 16145 specifies a method for the assessment of coating damages of ballast tanks, as well as cargo oil tanks where IMO PSPC shall be applied, and it can also be applied to other areas as a reference.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 16145-1, *Ships and marine technology — Protective coatings and inspection method — Part 1: Dedicated sea water ballast tanks*

IACS UI SC223, *For Application of SOLAS Regulation II-1/3-2 Performance Standard for Protective Coatings (PSPC) for Dedicated Seawater Ballast Tanks in All Types of Ships and Double-side Skin Spaces of Bulk Carriers, adopted by Resolution MSC.215(82)*

MSC.215(82), *Performance Standard for Protective Coatings for Dedicated Seawater Ballast Tanks in All Types of Ships and Double-side Skin Spaces of Bulk Carriers*

MSC.288(87), *Performance Standard for Protective Coatings for Cargo Oil Tanks of Crude Oil Tankers*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1
coating damage
damaged coating which has reached the steel substrate, caused by welding, fairing, mechanical impact, etc. during ship construction

3.2
erection butt
pre-erection or erection joint of blocks

© ISO 2014 – All rights reserved