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Ships and marine technology — Large yachts — Measurement and assessment of the visual appearance of coatings

Navires et technologie maritime — Grands yachts — Mesurage et évaluation de l'apparence visuelle des revêtements

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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 document 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).

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This document was prepared by Technical Committee ISO/TC 8 *Ships and marine technology,* Subcommittee SC 12, *Large yachts.*

This second edition cancels and replaces the first edition (ISO 11347:2012) which has been technically revised.

The main changes are as follows:

— updated normative references and bibliography;

— updated the terms and definitions in Clause 3;

— updated the test and recording methods.

Any feedback or questions on this document should be directed to the user’s national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Introduction

This document defines the measurement and assessment processes used for above waterline exterior surface appearance and quality requirements for large yachts. The purpose of this document is to provide practical measurement processes for the assessment of agreed acceptance criteria for the visual appearance of yacht coatings.

Measurement processes are based on known generic inspection equipment that is available at the time of producing this document. It is not the purpose of this document to provide an exhaustive list of inspection equipment which is available at the time of publication.

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Ships and marine technology — Large yachts — Measurement and assessment of the visual appearance of coatings

1 Scope

This document specifies technical requirements for the measurement and assessment of the visual appearance of the superficial coating of large yachts. It is valid for coatings above the waterline.

For the purpose of this document, large yachts are of length of hull (L_H) higher or equal to 24 m (as defined according to ISO 8666), in use for sport or leisure and commercial operations.

This document describes how the final finish can be evaluated before its acceptance.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 2813, *Paints and varnishes — Determination of gloss value at 20°, 60° and 85°*

ISO 4618, *Paints and varnishes — Vocabulary*

ISO 4628-2, *Paints and varnishes — Evaluation of degradation of coatings — Designation of quantity and size of defects, and of intensity of uniform changes in appearance — Part 2: Assessment of degree of blistering*

ISO 4628-4, *Paints and varnishes — Evaluation of degradation of coatings — Designation of quantity and size of defects, and of intensity of uniform changes in appearance — Part 4: Assessment of degree of cracking*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4618 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1
clouding
appearance of lighter and darker patches in a *top coat* (3.12) film, most commonly observed in special effect (metallic flake) coatings

3.2
curing
term in polymer chemistry that refers to the toughening or hardening of a polymer material by cross linking of polymer chains

3.3
cut line
visible, raised, hard edge of a coating created when the applied coating borders masking/fine line tape

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