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Fibre ropes for offshore stationkeeping —

Part 5: Aramid

Cordages en fibres pour le maintien en position des structures marines —

Partie 5: Aramide

Reference number
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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 38, *Textiles*.

This first edition of ISO 18692-5 cancels and replaces ISO/TS 17920:2015, which has been technically revised.

The main changes are as follows:

— the document previously, published as a Technical Specification, has been reorganized as the new ISO 18692-5, taking into account the content of ISO 18692-1.

A list of all parts in the ISO 18692 series can be found on the ISO website.

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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Fibre ropes for offshore stationkeeping —

Part 5:
Aramid

1 Scope

This document specifies the main characteristics and test methods of new aramid fibre ropes used for offshore stationkeeping.

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 1968, *Fibre ropes and cordage — Vocabulary*

ISO 18692-1:2018, *Fibre ropes for offshore stationkeeping — Part 1: General specification*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 1968, ISO 18692-1 and the following apply.

ISO and IEC maintain terminological 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
aramid
long-chain synthetic polyamide in which at least 85 % of the amide linkages are attached directly to two aromatic rings

Note 1 to entry: Adapted from ISO 2076:2021, 5.9.

3.2
axial compression fatigue
failure mode for fibre rope such as *aramid* (3.1) under low tension or compression

4 Materials

The fibre used in the core of the rope shall be aramid fibre, with an average tenacity of not less than 1,8 N/tex, and shall be qualified and tested in accordance with Annex A.

Rope cover material and other materials employed in rope assembly shall be in accordance with ISO 18692-1.

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