INTERNATIONAL STANDARD

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Fibre ropes for offshore stationkeeping — Polyester

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



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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 traison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

ISO 18692 was prepared by Technical Committee ISO/TC 38, Textiles.

SISO/TC 38, Textiles.

Fibre ropes for offshore stationkeeping — Polyester

1 Scope

This International Standard specifies the main characteristics and test methods of new polyester fibre ropes used for offshore stationkeeping.

2 Normative references

The following referenced documents are indispensable for the application 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 7500-1, Metallic materials — Part 1: Tension/compression testing machines — Verification and calibration of the force-measuring system

ASTM D 885, Standard test methods for tire code, tire cord fabrics, and industrial filament yarns made from manufactured organic-base fibers

CORDAGE INSTITUTE CI 1503, Test method for yarn on-yarn abrasion

3 Terms and definitions

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

3.1

breaking strength

BS

maximum force applied in straight tension to a rope, which causes it to rupture

3.2

core

central part which is the load-bearing part of the rope

3.3

over

braided cover or other protective layer, which is placed over the rope core

NOTE The cover has no significant contribution to the rope strength.

3.4

dynamic stiffness

ratio of rope load to strain variations between the lower (trough) and upper (peak) stresses imposed during testing, normalized by the rope minimum breaking strength

See B.3.6.2.

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