International Standard

ISO 10325

Fibre ropes — High modulus polyethylene — 8-strand braided ropes, 12-strand braided ropes and covered ropes

Cordages en fibres — Polyéthylène à haut module — Cordages tressés à 8 torons, cordages tressés à 12 torons et cordages avec couverture

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Foreword

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This document was prepared by Technical Committee ISO/TC 38, *Textiles,* in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 248, *Textiles and textile products,* in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 10325:2018), which has been technically revised.

The main changes are as follows:

— a warning text regarding safety and risk has been added in the document before the Scope;

— Clause 3: a definition of general purpose use has been added;

— Clause 5: the description of material has been revised;

— Clause 6: Figure 1 has been revised, and the layout of the figures have been aligned;

— Clause 7: the description of physical properties and the liner density in Table 1 and Table 2 have been revised, and footnotes accordingly to clarify values presented in the tables.

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Fibre ropes — High modulus polyethylene — 8-strand braided ropes, 12-strand braided ropes and covered ropes

WARNING — The use of rope and cordage products has inherent safety risks which are subject to highly variable conditions, and which may change over time. Conformance with this document does not guarantee safe use under all circumstances. If the user has any questions or uncertainties about the proper use of rope or cordage, or about safe practices for general purpose use, a competent person shall be consulted.

1 Scope

This document specifies requirements for 8-strand braided ropes, for 12-strand braided ropes, and for covered rope constructions (single braid, double braid and multi-core construction) for general purpose made of high modulus polyethylene (HMPE), and gives rules for their designation.

Many different types and grades of HMPE fibre exist which are commonly used to produce rope products. This document does not apply to all variations in strength or product performance

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 2307, *Fibre ropes — Determination of certain physical and mechanical properties*

ISO 9554, *Fibre ropes — General specifications*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 1968 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
cover
jacket
braided cover or other protective layer, which is placed over the rope core

Note 1 to entry: The cover has no significant contribution to the rope strength.

3.2
heat-set rope
rope whose properties have been modified by applying heat while simultaneously subjecting it to a controlled tensile load

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