

भारतीय मानक ब्यूरो  
BUREAU OF INDIAN STANDARDS

*Draft for comments only*

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22 May 2024

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भारतीय मानक मसौदा

वस्त्रादि — अपतटीय स्टेशन के रख रखाव के लिए रेशों से बनी रस्सियाँ  
भाग 4 : पॉलीएरिलेट

*(Draft Indian Standard)*

**TEXTILES — FIBRE ROPES FOR OFFSHORE STATIONKEEPING  
PART 4 : POLYARYLATE**

**ICS 59.080.50**

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Cordage Sectional Committee,  
TXD 09

Last date for receipt of comment  
**21 July 2024**

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NATIONAL FOREWORD

(Formal clauses will be added later)

This Indian Standard intended to be adopted is identical with ISO 18692-4 : 2023 'Textiles — Fibre ropes for offshore stationkeeping Part 4: Polyarylate' issued by the International Organization for Standardization (ISO).

The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'.
- b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In the standard intended to be adopted, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards which are to be substituted in their respective places are listed below along with their degree of equivalence for the editions indicated:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
ISO 1968, Textiles — Fibre ropes and cordage — Vocabulary	IS 3871 : 2013, Fibre ropes and cordage — Vocabulary ( <i>Third Revision</i> )	Identical under dual numbering
ISO 18692-1, Fibre ropes for offshore stationkeeping — Part 1: General specification	IS 17929 (Part 1) : 2022, Fibre ropes for offshore stationkeeping Part 1: General specification	Identical under dual numbering

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 2022 ‘Rules for rounding off numerical values (*second revision*)’. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

## **Extract Of ISO 18692-4:2023 ‘Textiles — Fibre ropes for offshore stationkeeping Part 4 : Polyarylate’**

### **1 SCOPE**

This document specifies main characteristics and test methods of polyarylate 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.

- i) ISO 1968:2004, Fibre ropes and cordage — Vocabulary
- ii) 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.

#### **3.1 Polyarylate**

High-modulus fibre made from thermotropic liquid crystal aromatic polyester and produced by melt spinning.

NOTE — An example of Polyarylate chemical structure is shown in Fig 1.

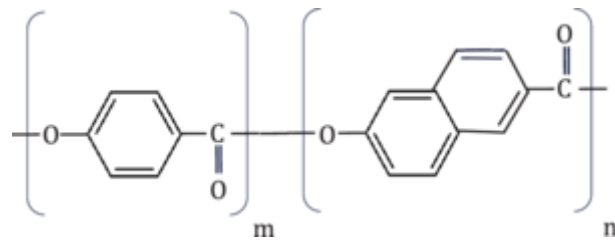


FIG.1: POLYARYLATE CHEMICAL STRUCTURE

### 3.2 Axial Compression Fatigue

Failure mode for fibre rope such as polyarylate under low tension or compression.

## FORMAT FOR SENDING COMMENTS ON BIS DOCUMENTS

(Please use A4 size sheet of paper only and type within fields indicated. Comments on each clause/sub clause/table/fig etc. be started on a fresh box. Information in column 3 should include reasons for the comments and suggestions for modified working of the clauses when the existing text is found not acceptable. Adherence to this format facilitates Secretariat's work)

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<b>Item, clause Sub-clause no. commented upon ( use separate box a fresh)</b>	<b>Comments</b>	<b>Specific Proposal (Draft) clause to be added/ amended</b>	<b>Remarks</b>	<b>Technical References and Justification on which (2), (3), (4) are based</b>
(1)	(2)	(3)	(4)	(5)