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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 6965-2026

Replacing GB/T 6965-2004

Basic conditions for testing fishing gear materials - Pre-tension

渔具材料试验基本条件 预加张力

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting. This document replaces GB/T 6965-2004 "Basic Conditions for Testing Fishing Gear Materials - Pre-tension". Compared with GB/T 6965-2004, except for the following. Aside from structural adjustments and editorial changes, the main technical changes are as follows:

- a) Additional instruments and equipment have been added (see Chapter 6);
- b) Additional experimental steps have been added (see Chapter 7);
- c) Increased the preload tension of the rope (see 5.1, 6.1, 7.1, 8.1);
- d) The pretension was changed (see Chapter 8, Chapter 4 of the 2004 edition). Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the Ministry of Agriculture and Rural Affairs of the People's Republic of China. This document is under the jurisdiction of the National Technical Committee on Fisheries Standardization (SAC/TC156). This document was drafted by: East China Sea Fisheries Research Institute, Chinese Academy of Fishery Sciences; Zhongyun Marine Equipment

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---First published in 1986 as GB/T 6965-1986, and revised for the first time in.2004;

---This is the second revision. Basic conditions for testing fishing gear materials. pre-tension

1 Scope

GB/T 6965-2026 is the Chinese national standard covering the pre-tension applied to a net or twine before it is measured - a textile that stretches, so the length, the mesh size and the mass per unit area all depend on the tension it is held at, and the number is meaningless without it. It replaces GB/T 6965-2004 and has been in force since 1 September 2026. It was issued on 27 February 2026 and has been in force since 1 September 2026, replacing GB/T 6965-2004. The document is under the responsibility of the Ministry of Agriculture and Rural Affairs. This page is published from the official record of the 2026 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document describes the basic conditions, equipment, and test procedures for pre-tensioning tests on fishing gear materials, and provides the pre-tensioning methods for these tests. tension. This document applies to the testing of pre-tension for fishing gear materials such as fishing ropes, fibers, netting, and netting sheets. Other fiber rope and netting materials... The pre-tension used in the experiment is for reference.

The following symbols apply to this document. m

4 The quality of a 1m long network cable m

5.The mass of 1m length of wire used for weaving knotted web sheets, obtained by weighing on a balance. m

6.The mass of a 1m length of wire mesh of the same type as a knotted mesh wire, obtained by linear density calculation. m

7.The quality of the wire mesh with the same specifications as the knotless mesh, obtained by consulting standards and other materials, and a total length of 1l. m

8. The mass of a 1m length of wire of the same thickness as the mesh of a knotless mesh, obtained through linear density calculation. m

9. The mass of the wire mesh, with the same thickness as the knotless mesh and a total length of l₂, obtained by weighing using a balance.

5 Test conditions

5.1 Rope Perform the test according to the conditions described in GB/T 8834.

5.2 Fishing fibers, netting lines and netting sheets Perform the test in accordance with GB/T 6529. With the consent of both parties, the test may also be conducted under other atmospheric conditions, but this should be specified in the test report. This will be explained in detail. In special circumstances such as disputes over the results of arbitration inspections or fishing gear material inspections, the samples will be placed in the conditions specified in GB/T 6529. The experiment should be conducted after at least 48 hours of conditioning under atmospheric conditions.

6 Instruments and Equipment

6.1 Rope Perform according to the instruments and equipment described in GB/T 8834.

6.2 Fishing fibers, netting lines and netting sheets

6.2.1 Length measuring equipment The length of fishing monofilaments, net lines, and net panels is measured using a measuring tape with a graduation value of no more than 1 mm, an infrared rangefinder, or a laser rangefinder. Measuring equipment. For measuring the length of multifilament and other fiber samples, a yarn length gauge with a graduation value not exceeding 1 mm, an infrared rangefinder, or a laser is used. Length measuring equipment such as distance measuring instruments.

6.2.2 Balance The balance has an appropriate range and a sensitivity of no more than 0.001g.

6.2.3 Temperature and humidity measuring instruments The test site needs to be equipped with temperature and humidity measuring instruments. The accuracy of temperature measurement should not exceed 0.5°C, and the accuracy of relative humidity measurement should not exceed [missing value]. 3%, temperature and humidity measuring instruments should have continuous recording function.

7 Test Procedure

7.1 Rope Perform the test according to the test procedure described in GB/T 8834.

7.2 Fishing fibers, netting lines and netting sheets

7.2.1 Measurement of temperature and humidity Use a thermometer and hygrometer to measure the ambient temperature and humidity of the test site.

7.2.2 Measurement of Length and Mass

7.2.2.1 Fishery Fiber Fishery fibers mainly include monofilaments and multifilaments, and the corresponding length and weight measurement methods are as follows:

- a) Measure a 1m long monofilament using a length measuring instrument or similar length measuring device, then weigh the monofilament using a balance to obtain the mass of the 1m long monofilament. Measure m_1 , and the result is expressed in grams (g) and rounded to two decimal places.
- b) Measure a 250m long bundle of multifilament using a yarn length measuring instrument or similar length measuring equipment, then weigh the multifilament using a balance to obtain the length of each bundle. The mass m_2 of a 250m long multifilament is expressed in grams (g) and rounded to two decimal places.
- c) Measure a single or bundle of other fishing fibers with a length of 1m using a length measuring device, and then weigh the other fishing fibers using a balance. The mass m_3 of other fishing fibers with a length of 1m is obtained, and the result is expressed in grams (g) to two decimal places.

7.2.2.2 Network cable A 1-meter length of network cable was measured using a length measuring instrument or similar equipment, and then the cable was weighed using a balance to obtain the mass of the 1-meter length of network cable. The quantity is m_4 , and the result is expressed in grams (g) and rounded to two decimal places.

7.2.2.3 Mesh 7.2.2.3.1 Knotted mesh The methods for measuring the length and mass of knotted mesh sheets are as follows:

- a) The submitting unit provided the mesh fabric for weaving. After weighing the mesh fabric using a balance, the mass m_5 of 1m length of mesh fabric was obtained. The result is expressed in grams. (g) is the unit, rounded to two decimal places;
- b) The submitting unit could not provide the network cable used for weaving, but after consulting standards and other materials, it obtained the linear density of the same specification network cable material, and thus passed the test. The mass m_6 of a 1m length of wire mesh of the same specification was obtained by linear density calculation. The result is expressed in grams (g) and rounded to two decimal places.
- c) The submitting unit was unable to provide the network cable used for weaving, and was unable to obtain the linear density of the same specification network cable material by consulting standards and other materials; First, cut one or more sections of wire from the