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

GB/T 18146.3-2015

Replacing GB/T 18146.3-2000

Hemp fiber - Part 3: Cotton type hemp fiber

大麻纤维 第3部分：棉型大麻纤维

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Table of Contents

- 1 Scope
- 2 Normative references
- 3 Terms and definitions
- 4 Technical requirements...
- 5 Sampling quantity and sampling method...
- 5.2 Sampling method
- 5.2.1 Single-piece sampling
- 6 Test methods
- 6.8 Conditioned weight
- 7 Quality assessment...
- 8 Handover and acceptance...
- 9 Packaging, marking, transportation, and storage...

Foreword

GB/T 18146 "Hemp fiber" is divided into 3 parts:

--- Part 1: Raw white degummed hemp;

--- Part 2: Raw white hemp sliver;

--- Part 3: Cotton type hemp fiber. This part is Part 3 of GB/T 18146. This part is drafted in accordance with the rules given in GB/T 1.1-2009. This part replaces GB/T 18146.3-2000 "Hemp fibre - Part 3: Raw white hemp noil". Compared with GB/T 18146.3-2000, the main technical changes are as follows:

--- The standard name is changed from "Hemp fibre - Part 3: Raw white hemp noil" to "Hemp fiber - Part 3: Cotton type hemp fiber";

--- The scope is modified and changed from "applicable to raw white hemp noil" to "applicable to the quality assessment of cotton type hemp fibers";

--- GB/T 18146.1 is deleted from the normative references;

--- The definition of "cotton type hemp fiber" is added;

--- The "hemp Micronaire" is canceled and replaced by the "fineness";

--- The technical requirements for cotton type hemp fibers are modified;

--- The sampling quantity and sampling method are modified. This standard is proposed by and shall be under the jurisdiction of China Fiber Inspection Bureau. Drafting organizations of this part: Quartermaster Equipment Research Institute of the General Logistics Department, China-Hemp Industrial Investment Co., Ltd., Yunnan Fiber Inspection Bureau. The main drafters of this part: Hao Xinmin, Gao Mingzhai, Liang Ning, Zhao Jun, Tao Ran, Yang Yuan. The previous versions of the standards replaced by this part are as follows:

--- GB/T 18146.3-2000. Hemp fiber - Part 3: Cotton type hemp fiber

1 Scope

GB/T 18146.3-2015 is the Chinese national standard on hemp fiber - part 3: cotton type hemp fiber, in the field of textile and leather technology. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 3 July 2015 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 October 2015. Classification: ICS 59.060.10, CCS B32. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This part of GB/T 18146 specifies the definition, technical requirements, sampling quantity and sampling methods, test methods, inspection rules, packaging, marking, transportation, and storage of cotton type hemp fibers. This part applies to the quality assessment of cotton type hemp fibers.

2 Normative references

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) is applicable to this standard.

GB/T 8170 Rules of rounding off for numerical values & expression and judgment of limiting values

GB/T 9995 Determination of moisture content and moisture regain of textile - Oven- drying method

GB/T 18147.1 Test method for hemp fibre - Part 1: Test method for oil content of hemp fibre

GB/T 18147.3 Test method for hemp fiber - Part 3: Test method for length of hemp fiber

GB/T 18147.4 Test method for hemp fiber - Part 4: Test method for fineness of hemp fiber

GB/T 18147.5 Test method for hemp fiber - Part 5: Test method for breaking strength of hemp fiber

GB/T 18147.6 Test method for hemp fiber - Part 6: Test method for defect in hemp fiber

3 Terms and definitions

The following terms and definitions apply to this document. The sampling quantity is determined by the number of pieces in each batch. If the number of pieces is 2 or less in each batch, take 1 piece; if it is 5 or less in each batch, take 2 pieces; if it is 10 or less in each batch, take 3 pieces; if it is 25 or less in each batch, take 4 pieces, if it is 350 or less in each batch, take 5 pieces; if it is 350 or more in each batch, take 6 pieces.

5.2.1 Single-piece sampling

5.2.1.1 Sampling for moisture regain test: Take about 50 g from each sample in the batch (sampling depth shall be 10 cm~15 cm from the outer layer of the sack), and immediately put them into an airtight container for moisture regain test.

5.2.1.2 Sampling for appearance quality inspection: Take about 100 g from each sample in the batch (sampling depth shall be 10 cm~15 cm from the outer layer of the sack), and place them flat on the workbench for appearance quality inspection.

5.2.1.3 Fully mix the samples after appearance quality inspection to form laboratory samples for test sampling:

- a) Sampling for oil content test: Take 3 samples, each about 5 g, and measure the oil content.
- b) Sampling for length test: Take 3 samples, each about 150 mg, and measure the fiber length.
- c) Sampling for fineness test: Take 3 samples, each about 300 mg, and measure the fineness.
- d) Sampling for breaking strength test: Take 12 samples, each about 5 mg, and measure the breaking strength.
- e) Sampling for the nep and strip fiber test: Take 3 samples, each about 1 g, and measure the nep and the content of strip fiber.

5.2.2 Batch sampling For multiple pieces of a batch, according to the provisions of 5.2.1, take a sample from each piece and test respectively, and take the arithmetic mean of the test data as the test result of the batch.

6 Test methods

6.1 Moisture regain Through visual inspection and touch by hand, determine that there is no obvious abnormality in the moisture regain of the hemp fibers, and then carry out the test according to GB/T 9995.

6.2 Appearance quality Under the conditions of northerly daylight or simulated daylight (illuminance ≥ 600 lx), inspect the appearance by eyes.

6.3 Oil content The test shall be carried out according to GB/T 18147.1.

6.4 Average length, short fiber content The test shall be carried out according to GB/T 18147.3.

6.5 Fineness The test shall be carried out according to GB/T 18147.4.

6.6 Breaking strength The test shall be carried out according to GB/T 18147.5.

6.7 Nep and strip fiber content The test shall be carried out according to GB/T 18147.6.

6.8 Conditioned weight

6.8.1 The inspection of the conditioned weight is based on batches. Weigh each batch and record the gross weight.

6.8.2 According to the batch size, and the sampling quantity specified in 5.1, weigh the mass of the packaging, calculate the average mass of a single packaging, and round the calculation result to two decimal places.

6.8.3 The net weight of each batch of hemp fiber shall be calculated according to formula (1), and the result shall be rounded to three decimal places. Where: W_2