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GB/T 18147.4-2015

Replacing GB/T 18147.4-2000

**Test method for hemp fiber - Part 4: Test method for
fineness of hemp fiber**

大麻纤维试验方法 第4部分:细度试验方法

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Test method for hemp fiber - Part 4: Test method for fineness of hemp fiber

1 Scope

This Part of GB/T 18147 specifies the test method for fineness of hemp fiber (Weighing method by mid-section cut).

This Part applies to raw white hemp sliver and cotton type hemp fiber.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies to this document. For undated references, the latest edition (including any amendment) applies to this document.

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 18146.2, Hemp fiber - Part 2: Raw white hemp sliver

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

3 Principle

Cut out a certain length of fiber; weigh the mass; count the number of fibers; obtain the fiber fineness by the ratio of its mass to its length.

4 Instruments and tools

4.1 Mid-section cutter: (10 ± 0.1) mm.

4.2 Balance: range 10 mg, division value 0.02 mg.

4.3 Electronic balance: division value 0.001 g.

4.4 Counter.

4.5 Pointed stainless steel tweezers, pressure hammer, black clearer, coir scrub brush, clearer brush, glass plate, glass sheet, etc.

5 Test conditions

Temperature (20±2) °C, relative humidity (65±4)%.

6 Sampling

Raw white hemp sliver is subject to GB/T 18146.2, and cotton type hemp fiber is subject to GB/T 18146.3.

7 Test steps

7.1 Conditioning

7.1.1 Laboratory samples whose moisture regain exceeds 12.0% shall be pre-baked in a 45 °C ~ 50 °C oven, so as to make the moisture regain lower than 12.0%. Carry out the moisture regain test according to GB/T 9995.

7.1.2 Put the laboratory samples under the conditions of Chapter 5 for conditioning, to reach the moisture equilibrium; the time shall not be less than 2 h.

7.2 Sample preparation

7.2.1 Take 2 test samples and 1 spare sample from the laboratory samples that have reached moisture equilibrium; arrange them by hand pulling 3 times to make the samples neat at one end.

7.2.2 Spread the samples evenly and straightly on the glass plate (bottom-lined with black clearer) along a straight line. During the arrangement process, it's available to use the coir scrub brush to brush 2 ~ 3 times, and use tweezers to pick out the defects. The free fibers brushed off shall be re-classified into the samples after arrangement. Use tweezers to fold it into a hemp bundle with a neat end and a width of about 15 mm. Discard short fibers below 30 mm for raw white hemp slivers, and short fibers below 15 mm for cotton type hemp fibers.

7.2.3 Again, spread the fibers evenly and straightly on the glass plate along a straight line from left to right, from long to short; divide them into 5 groups according to their lengths; use tweezers to arrange them into a hemp bundle with a neat end and a width of 10 mm ~ 15 mm, with the long fibers on the bottom and the short fibers on the top.

7.3 Testing

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