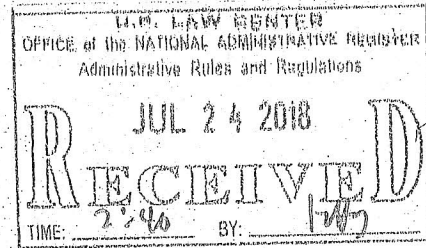


Republic of the Philippines  
**DEPARTMENT OF AGRICULTURE**  
**PHILIPPINE FIBER INDUSTRY DEVELOPMENT AUTHORITY**  
Elliptical Road, Diliman,  
Quezon City 1100, Philippines

June 11, 2018

**ADMINISTRATIVE ORDER**  
No. 06  
**SERIES OF 2018**



**SUBJECT:** Determination and Description of the Philippine National Standards (PNS) for the Commercial Grades of Decorticated Abaca fiber (*Musa textilis Nee*).

Pursuant to the provisions of Republic Act (RA) 8435 of 1997, otherwise known as Agriculture and Fisheries Modernization Act (AFMA), the development of the Philippine National Standards (PNS) on the Grading and Classification of Decorticated Abaca Fiber numbered PNS/BAFS 181:2016 is hereby promulgated for the information, guidance and compliance of all concerned;

### **1 Scope**

This Standard specifies requirements and establishes a system of grading and classifying of commercial grades of decorticated abaca fiber.

### **2 References**

The titles of the standards publications referred to in this standard are listed on the inside back cover.

### **3 Definitions**

**3.1 abaca** - plant scientifically known as *Musa textilis nee*.

**3.2 abaca fiber** - fiber extracted from the abaca plant.

**3.3 color** - influenced by the layer of leafsheaths or the variety from which the fiber is extracted, extent of decortication, oxidation, care taken in drying the fiber, and attack of micro-organisms on the fiber as a result of poor postharvest management.

**3.4 decorticated abaca fiber** - fiber derived from plant scientifically known as *Musa textilis nee* extracted through decortications.

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**3.5 decortivating** - mechanized process for fiber extraction where leafsheaths are scraped by means of revolving wheels with knives.

**3.6 good decorticated abaca fiber** - abaca fibers with fiber strand size that does not exceed one-half millimeter in diameter.

**3.7 grade** - shall refer to the fiber quality as designated by an alphanumeric code generally described as normal and residual fiber.

**3.7.1 normal grade** - fiber with tensile strength ranging from 19.5 to 32.6 kgf/gm, length not less than 60 cm, and not discolored, soiled or stained.

**3.7.2 residual grade** - fiber with < 19.5 kgf/gm tensile strength, less than 60 cm in length, soiled, stained, discolored, or excessively stripy.

**3.8 Grading/Baling Establishments or GBE** - firm engaged in buying, grading/baling and selling commercial fibers for domestic and/or foreign consumption fully equipped with the required equipment, facilities, and manpower.

**3.9 length** - attribute of abaca fiber that varies according to the growth and development of the plant.

**3.10 tensile strength** - basic quality for all the normal grades, the fiber which must possess the average strength considered normal for the grade in which it is included and measurable by a device called tensile strength tester.

**3.11 texture** - attribute of abaca fiber influenced by the size of the fiber strand and categorized as soft, medium soft, and medium!

#### **4 Minimum Requirements**

In all normal grades subject to the special provisions for each grade under Section 5 and the tolerances allowed, decorticated abaca fiber shall meet the following requirements:

- 4.1 The tensile strength of the decorticated abaca fiber ranges from 19.5 to 32.6 kilogram force per gram meter (kgf/g.m).
- 4.2 The minimum length shall not be less than 60 centimeters
- 4.3 The abaca fiber must be of uniform color according to the grade.
- 4.4 The abaca fiber must be of the same kind of decortivating.
- 4.5 The stripped abaca fiber must not be soiled, stained or discolored and must be free from foreign matters.

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## 5 Grading

Decorticated abaca fiber shall be classified into various grades according to decortivating process, color and length.

**Table 1- Normal grades of decorticated abaca fiber**

Grade		Description				
Name	Alpha-numeric code	Decortivating process	Color	Extracted from	Length cm	Fiber strand size mm
Abaca Deco One	AD-1	Good	White to ivory white	Inner and middle leaf sheaths	not less than 60 cm	Not greater than ½ mm
Abaca Deco Two	AD-2	Good	Light brown to white	Second, middle and inner sheaths	not less than 60 cm	Not greater than ½ mm
Abaca Deco Three	AD-3	Good	Streaks of: purple green brown	Outer sheath to the next to outer sheath	not less than 60 cm	Not greater than ½ mm
Abaca Deco Four	AD-4	Irregular	Regardless of color with some admixture of fiber of good cleaning / stripping  Dark colored streaks but of good cleaning/ stripping	---	not less than 60 cm	Not greater than ½ mm

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**Table 2 – Residual Grades of decorticated abaca fiber**

Grade		Description
Name	Alphanumeric code	
Residual	AD-R	Soiled, stained, weak or discolored regardless of decortivating process Strings, twisted, knotted strands Wide strips  Short, tangled, low colored, improperly decorticated  Improperly decorticated Various lengths, partly wide strips of dried abaca sheaths, fragments falling under the decortivating machine

**6 Tolerances**

In all normal grades, a 5% tolerance level would be provided as follows:

- 6.1 Negative (-) 5% of the 19 kgf/gm tensile strength
- 6.2 Negative (-) 5% of 60 cm length
- 6.3 Positive (+) 5% fiber strand size for good and irregular decortivating process.

**7 Sampling**

Sampling method to be used for ascertaining conformance to the requirements of this specification shall be in accordance with the established procedures used by the competent authority.

**8 Baling**

Decorticated abaca fiber may be baled in this manner:

- 8.1 Every bale of fiber shall contain only dry fibers of the same kind of decortivating, grade and province of origin. The fibers must, more or less, be of the prescribed length and free from plastic and other foreign matters
- 8.2 Decorticated abaca fiber shall be baled and bound securely by a suitable and strong material of the same kind of fiber.
- 8.3 In case of fibers tied into hanks, hanks shall be five (5) to ten (10) centimeters in diameter at the butt or head. The strand used in tying the hanks shall be of the same kind and grade as the fiber forming the hank and each strand shall not be knotted.

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- 8.4 Hanks of abaca shall not be divided in two (2) or three (3) parts but shall be folded once or twice to keep the fibers together before they are laid straight in the press box, the heads or butts of the hanks in one row alternating the tips of the hanks of the next row until the bale is completed. The hanks shall be packed such that the tips of one layer doubles back over the butt of the layer of hanks beneath, and so on.

Grading/Baling Establishment (GBE) may also press bales in such a manner that three (3) or four (4) hanks of fibers are laid straight side-by-side in the press box at the middle of the lower press block 'cojin', the ends of which are laid apart from the inner end-side of the press box. The remaining portion of the hanks shall be coiled along the opposite end-side and along the sides of the press block encircling the butt ends until the entire length of the hanks is so coiled. The subsequent layer of hanks shall similarly be arranged with the butts or head on the opposite side of the layer of hanks below, until all the hanks composing the bale are so placed in the press box.

- 8.5 Unless otherwise provided, each bale shall have an approximate dimension of 100 centimeters by 55 centimeters by 60 centimeters (100cm x 55cm x 60cm) with a net weight of 125 kilograms after pressing.
- 8.6 Unless otherwise specified, each bale of fiber shall be securely bound by a suitable and strong binding material of the same kind of fiber which shall not be less than seven (7) ties crosswise nor less than three (3) ties lengthwise. To hold the bales in their regular size, the 2<sup>nd</sup>, 4<sup>th</sup> and 6<sup>th</sup> crosswise ties may be doubled. The extreme ties shall not be closer than ten (10) centimeters from the edge of the bale. The fiber binding materials on each bale shall not weigh more than one (1) kilogram.

## 9 Labelling

The tagging and marking of bales shall be as follows:

- 9.1 Each bale shall bear a tag known as the long cloth tag for local and long cloth and square tag for export made of unstarched raw cotton of good quality material not less than 58 centimeters long and ten (10) centimeters wide, one end of which shall be securely tied to the fiber inside the bale and the other end shall project out from one end of the bale 15-20 centimeters long.

In case of bales of short fibers where tying of the long cloth tag is not practical, one ends of the long cloth tag shall, instead, be knotted and securely tied to the ties of either bundle composing the bale and must be placed between bundles.

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- 9.2 The following data in their order shall be stamped, one below the other, on the long cloth tag placed inside the bale:
- 9.2.1 The full or abbreviated name of the GBE;
  - 9.2.2 The name of the municipality or city where the establishment is located;
  - 9.2.3 The establishment and lot number separated by a dash;
  - 9.2.4 The full or abbreviated name of the province of origin;
  - 9.2.5 The date of pressing; and
  - 9.2.6 The initial of the station, the registered mark of the establishment, and the letter designation of the grade, the three (3) forming one line separated from one another by bars.
- 9.3 The classifier's license number shall be indicated on the upper portion of the long cloth tag tied inside the bale.
- 9.4 The other end of the long cloth tag projecting out of the bale shall be divided into two (2) sections. The one adjacent to the bale shall bear the same data stamped in the upper end of the tag in the same order, except the classifiers license number, and the rest of the long tag shall be reserved for the official stamps of the Authority.
- 9.5 All markings on the cloth tag, whether letters or numerals, shall be stamped with clear indelible stamping ink and shall not be less than one (1) centimeter in height except the name of the municipality / city where the establishment is located and the date of pressing which shall not be less than eight (8) millimeters.
- 9.6 For baling of abaca fiber intended for export, another cloth tag of the same or better material than the long cloth tag provided herein may be placed, on one side of the bale underneath the binding or ties. This tag should be in the form of a square tag measuring 35 by 35 centimeters. Upon it, the following data in their order shall be stamped or stenciled, one below the other, clearly in letters not less than five (5) centimeters high except the words 'PRODUCT OF THE PHILIPPINES' which shall have a measurement of not less than one-and-a-half (1 1/2) centimeters in height:
- 9.6.1 The words ' PRODUCT OF THE PHILIPPINES';
  - 9.6.2 The initial of the station where the establishment is located;
  - 9.6.3 The registered mark of the establishment;
  - 9.6.4 The letter designation of the grade of fiber contained in the bale.

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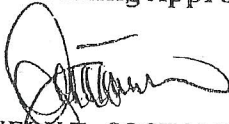
In the absence of the square cloth tag the data required to be placed thereon shall invariably appear clearly on the exposed surface of the wrapping materials on either side of the bale.

- 9.7 Additional marks required by the buyers may only appear on the square tag or long cloth tag, as the case maybe, after the bale has been inspected and approved.
- 9.8 Data/marks required herein to be placed upon the square and long cloth tags shall appear in black paint/ink or its equivalent.

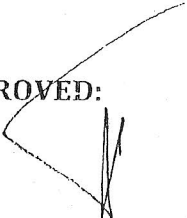
Except those specified in this section unless requested and granted by the authority, no other data marks whatsoever shall appear on the tags of any bale of fiber before inspection.

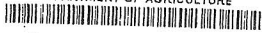
- 10 **Repealing Clause** - Fiber Industry Development Authority Administrative Order No. 1, S. 2001 and all orders, rules and regulations inconsistent with the provision of this Administrative Order are hereby repealed.
- 11 **Effectivity** - This Philippine Fiber Industry Development Authority Administrative Order No. 06, S. 2018 shall take effect fifteen (15) days after its publication in the official Gazette or in a daily newspaper of general circulation.

Recommending Approval:

  
KENNEDY T. COSTALES  
Executive Director III

APPROVED:

  
EMMANUEL F. PIÑOL  
Secretary  
Department of Agriculture

DEPARTMENT OF AGRICULTURE  
  
In replying pls cite this code :  
For Signature: S-06-18-0335  
Received : 06/26/2018 08:33 AM

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