ABACA FIBER - GRADING AND CLASSIFICATION - HAND-STRIPPED AND SPINDLE/MACHINE- STRIPPED

PNS/BAFS 180:2016

### ILLUSTRATIVE GUIDE





DEPARTMENT OF AGRICULTURE (DA) BUREAU OF AGRICULTURE AND FISHERIES STANDARDS (BAFS)

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**Illustrative Guide** 

Abaca Fiber - Grading and Classification -Hand-stripped and Spindle/Machine-stripped (PNS/BAFS 180:2016)

> Department of Agriculture (DA) Bureau of Agriculture and Fisheries Standards (BAFS) Quezon City, 2025

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# **Reader's Guide**

This Illustrative Guide (IG) complements the Philippine National Standard (PNS) -Grading and Classification - Hand-stripped and Spindle/Machine-stripped (PNS/BAFS 180:2016). The PNS outlines the recommended classification and grades for handstripped and spindle/machine-stripped abaca fibers.

This IG is specifically designed to aid readers in understanding the provisions of the PNS. It is intended for regulatory personnel, industry professionals, or individuals interested in the production of abaca fibers. The creation of IG does not purposely revise nor amend the content of the PNS; thus, it provides clarity, insights, and inspiration for the target industry through the addition of images and/with information fitted in the current situation.

The content of this IG mirrors the section numbers of the PNS for easy cross-referencing. Additional photographs/images or illustrations are included to assist the user in understanding the provisions of this Standard. The images are placed under the provisions to distinguish them from the PNS provisions. Note that this IG presents the minimum requirements as stated in the PNS and does not include additional regulatory requirements beyond the scope of the PNS.

For more updates and detailed information about the PNS and other knowledge products (KPs), readers are encouraged to visit the DA-BAFS website at <u>www.bafs.da.gov.ph</u> or follow the DA-BAFS Facebook page at <u>www.facebook.com/da.bafs</u>.

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# **Director's Message**



I am pleased to present the Illustrative Guide for the Philippine National Standard (PNS) Abaca fiber - Grading and Classification -Handstripped and Spindle/Machine stripped (PNS/BAFS 180:2016).

In line with our commitment to becoming more customer-oriented, this Illustrative Guide is specifically designed to assist you in better understanding the PNS and implement its provisions more clearly.

Following the Focus Group Discussions (FGD) with regulatory agencies, we recognized the need to enhance and ensure a consistent understanding of the PNS. Especially on the technical terms, which can be challenging to interpret, and have variations in understanding the minimum requirements in grading and classification of handstripped and spindle/machine stripped abaca fiber among readers to have made uniform implementation challenging. Therefore, we have created this Illustrative Guide to simplify the use and enhance understanding of the PNS.

The TWG has consistently provided support and collaboration, offering significant recommendations that have led to the development of this Illustrative Guide. Our aim is to make it practical and meaningful, serving as a helpful resource for all regulatory personnel and extension workers in their activities. Our ultimate goal is to transform the PNS document into an empowering tool for all relevant stakeholders. By addressing challenges in implementing our PNS, we hope to create an environment where the PNS is understood, embraced, and effectively adopted.

I extend my sincere gratitude to the TWG for their invaluable contributions to the development of this Illustrative Guide. Together, we strive for a future where the PNS is uniformly adopted and effectively implemented.

MARY GRACE R. MANDIGMA, PFT Officer-in-Charge, Director

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# Foreword

The DA-BAFS Technical Services Division (TSD) generated a Priority List for PNS Promotion for 2024 based on established prioritization criteria, which included the PNS Abaca Fiber - Grading and Classification - Hand-stripped and Spindle/Machine - Stripped (PNS/BAFS 180/2016). This Standard establishes the requirements for classifying and grading commercial grades of abaca fiber extracted from the leaf sheaths of the abaca plant (*Musa textilis* Nee.).

To assist regulatory officers and fiber inspectors of the PhilFIDA, and other relevant stakeholders, an IG was developed to provide supplementary material to the standard, further clarify the text of the standard, and provide more specific details on the grading and classification system through visual representations. The TWG, created specifically for the purpose, assisted in completing the IG in 2024, given the expressed urgency for this supplementary material to facilitate trade.

To create this IG, a series of field data gathering (FDG) activities were conducted in Salay and Sibantang in Misamis Oriental, Baloi in Lanao del Norte, Iligan City, Tabaco City in Albay and Casiguran in Sorsogon. The photographs and other relevant information gathered during these FDG activities were incorporated into the supplementary material. The TWG discussed and finalized the draft through a series of meetings and writeshops over a period of one year(March 2024 to March 2025). Moreover, to validate the content of the IG, pre-testing was conducted to priority audience - PhilFIDA - comprising 15 participants who are mainly involved in inspecting and abaca fibers.

The IG serves as a reference material and practical guide for regulatory personnel and fiber inspectors and other interested stakeholders in navigating the challenges of grading and classifying abaca fiber.

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# Scope



#### 1 Scope

This Standard specifies requirements and establishes a system of grading and classifying of commercial grades hand-stripped and spindle/machine - stripped abaca fiber.

### Section 2

### References



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Republic of the Philippines DEPARTMENT OF AGRICULTURE PHILIPPINES FIBER INDUSTRY DEVELOPMENT AUTHORITY Quezon City 1100, Philippines

ADMINISTRATIVE CIRCULAR SERIES OF 2020

CENTE SEP 22 2020

SUBJECT: RULES AND REGULATIONS TO GOVERN LICENSING, BALING, TAGGING, MARKING, INSPECTION, CERTIFICATION AND SHIPMENT OF PHILIPPINE COMMERCIAL FIBERS

Pursuant to E.O 366 dated May 29, 20 13 creating the Philippine Fiber Industry Development Authority (PhilFIDA) mandated to promote the growth and development

of the natural fiber industry through research and development; production support, extension support, education and training services; fiber utilization and technology; and standards implementation and trade regulation The rules and regulations to govern licensing baling, tagging, marking inspection, certification and shipment of Philippine commercial fibers are hereby promulgated for the information and guidance of all

### CHAPTER I

terms shall be construed as indicated herein

- Section 1. Terms Used as used in these rules and regulations, the following words or
  - 1. Abaca plant known scientifically as Musa textilis Nee;
  - 2. Abaca fiber commercial fiber extracted from abaca plant; 3. Authority - refers to the PhilFIDA; 4. Bale - volume and manner of packing the fiber;
- 6. Buntal fiber fiber extracted from buri plant;
- 5. Buri plant known scientifically as Coryphaetta Roxb.
- 7. Buying Station establishment that buys and supplies fibers exclusively to its 8. Camada - manner of piling the inspected and and

#### 2 References

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

Pursuant to E.O 366 dated May 29, 2013 creating Philippine Fiber Industry Development Authority (PhilFIDA), the Administrative Circular No. 12 series of 2020 also known as "Rules and Regulations to Govern Licensing and Shipment of Philippine Commercial Fibers is used as reference in this Illustrative Guide.



### Definitions



#### 3.1 abaca

plant scientifically known as Musa textilis Nee.



(Commonly found in Bicol Region)

Inosa (Commonly found in Eastern Visayas)

Tangongon (Commonly found in Mindanao)

#### 3.2 abaca fiber

fiber extracted from the abaca plant scientifically known as Musa textilis Nee.

#### 3.2.1 hand-stripped

fiber extracted through the use of manually operated stripping apparatus.



#### 3.2.2 spindle/machine-stripped

fiber extracted through the use of semi-mechanized apparatus aided by an engine



Process of extracting fiber using spindle machine



Fiber extracted using spindle machine

Other type of hand stripping machine:

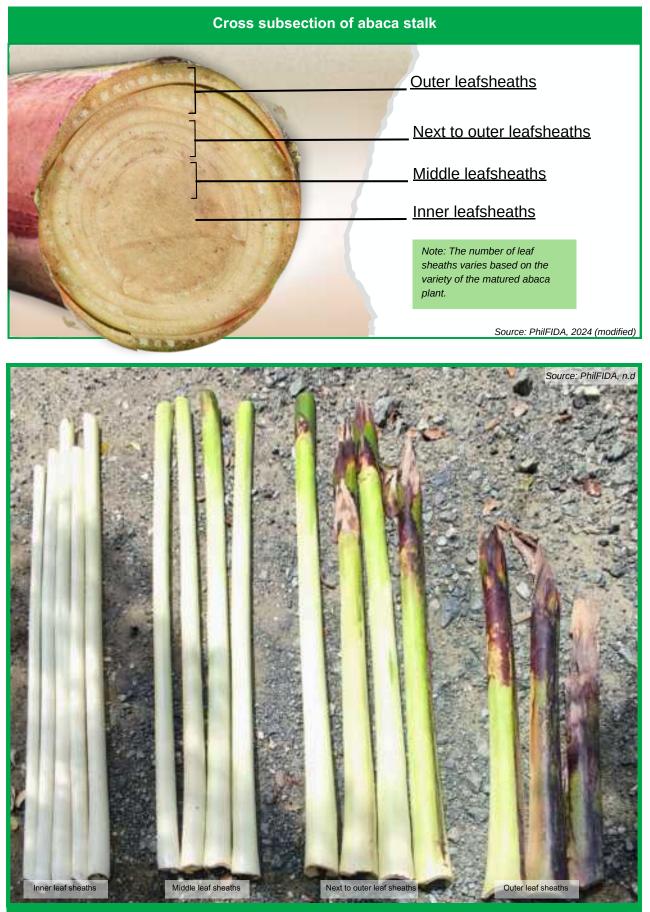


#### 3.3 color

influenced by the layer of leaf sheaths or the variety from which the fiber is extracted, extent of stripping, oxidation, care taken in drying the fiber, and attack of micro organisms on the fiber as a result of poor postharvest management.



Use of leaf sheath color chart to identify the appropriate color



Leaf sheaths of abaca

Classification	Grades	Fiber strand size (mm)	Stripping knife serration (inch)
Excellent	EF, S2, S3	0.2 - 0.5	0
Good	I, G, H	0.51 - 0.99	24
Fair	M1, JK	1.0 - 1.5	18

 Table 1. Parameters of abaca sheaths for handstripped

Source: PhilFIDA, n.d (modified)

#### 3.4 grade

shall refer to the fiber quality as designated by an alphanumeric code generally described as normal, residual and wide strips fiber.

#### 3.4.1 normal grade

fibers with tensile strength ranging from 35 to 55 kgf/gm, length not less than 60 cm, and not discolored, soiled or stained.



Normal grades

#### 3.4.2 residual grade

fiber with < 35 kgf/gm tensile strength, less than 60 cm in length, soiled, stained, discolored, or excessively stripy





#### 3.5 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.



Note: The images below showcase sample illustrations of the facilities within the GBE. Please note that fibers are not extracted using a decorticating machine.



Grading/Baling Establishment (GBE)

#### 3.6 length

attribute of abaca fiber that varies according to the growth and development of the plant.

#### 3.7 stripping

process of extracting fiber from the outer layer of the leaf sheath that contains the primary fibers (aka tuxy) using a knife either in a hand stripping or spindle/machine stripping apparatus. Knives may or may not have serrations. Serrations shall be of uniform width and depth. The amount of tension applied by the knife on the block is also uniform.



Process of extracting fiber by hand-stripping



#### Note:

- For 'Excellent Cleaning', it is recommended to use blades with 0 serration, such as in (2) and (3).
- For 'Fair Cleaning', a blade with 18 serrations per inch is used, such as in (4).
- For 'Good Cleaning', a blade with 24 serrations per inch is used, such as in (1).

Hand-stripping knife

#### 3.7.1 excellent stripped fiber

abaca fiber when very little or no pulp at all is attached to the stripped abaca. The texture of fiber is generally soft, and the size ranges from 0.2 mm to 0.5 mm.









#### 3.7.2 fair stripped fiber

stripped fibers with the diameter ranging from 1.00 to 1.50mm.





#### 3.7.3 good stripped fiber

abaca fiber when filaments are sticking together but the whole size should be in the range of 0.51 mm to 0.99 mm.









#### Note:

In measuring the abaca fiber strand, the inspector uses the abaca fiber size scale.



#### 3.8 tensile strength

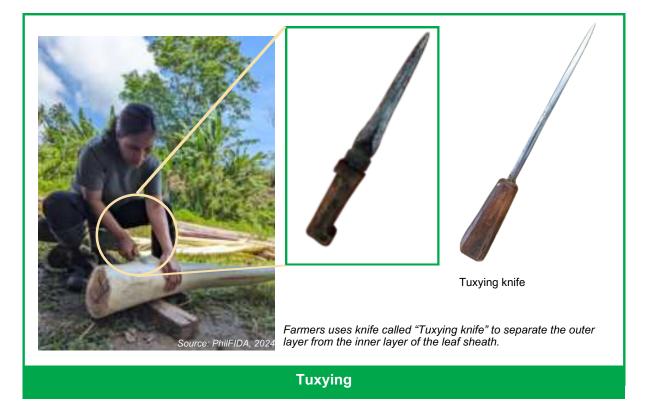
basic quality for all the normal grades, the fiber which must possess the average strength considered normal for the grade in which it is included and measurable by a device called tensile strength tester

#### 3.9 texture

attribute of abaca fiber influenced by the size of the fiber strand and categorized as soft, medium soft, and medium.

#### 3.10 tuxy

process of separating the outer layer from the inner layer of the leafsheath. The outer layer contains the primary fibers while the inner layer contains the secondary fibers and pulpy material.



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### **Section 4**

## **Minimum Requirements**



In all normal grades subject to the special provisions for each grade and the tolerances allowed, hand-stripped and spindle/machine-stripped abaca fiber shall meet the following requirements:

- **4.1** The tensile strength of abaca fiber ranges from 35 to 55 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 stripping
- **4.5** The stripped abaca fiber must not be soiled, stained or discolored and must be free from foreign matters.





# Grading



Grade	е			Description		
Name	Alpha- numeric code	Extracted from	Fiber strand size (mm)	Color	Stripping	Texture
Mid current	EF	Inner leaf sheath	0.20-0.50	Light ivory to a hue of very light brown to very light ochre Frequently intermixed with ivory white	Excellent	Soft
	S-EF	Inner leaf sheath	0.20-0.50	Light ivory or pale brown to a hue of ivory- white Frequently intermixed with ivory white	Excellent	Soft
Streaky	S2	Next to the outer leaf sheath	0.20-0.50	lvory white, slightly tinged with very light brown to red or purple streak	Excellent	Soft
Two	S-S2	Next to the outer leaf sheath	0.20-0.50	Light ivory to very pale brown with very red or very light purple streaks	Excellent	Soft

Table 1. Normal grades of hand and spindle/machine stripped abaca fiber

(Continuation)						
Grade	le			Description		
Name	Alpha- numeric code	Extracted from	Fiber strand size (mm)	Color	Stripping	Texture
Streaky	S3	Outer leaf sheath exposed to the sun	0.20- 0.50	Predominant color – light to dark red or purple or a shade of dull to dark brown	Excellent	Soft
Three	S-S3	Outer leaf sheath exposed to the sun	0.20- 0.50	Light brown to dark red or light purple with occasional streak of very light green	Excellent	Soft
Current	_	Inner and middle leaf sheath	0.51 to 0.99	Very light brown to light brown	Good	Medium soft
	ې ۲	Inner and middle leaf sheath	0.51 to 0.99	Light to very light brown	Good	Medium soft

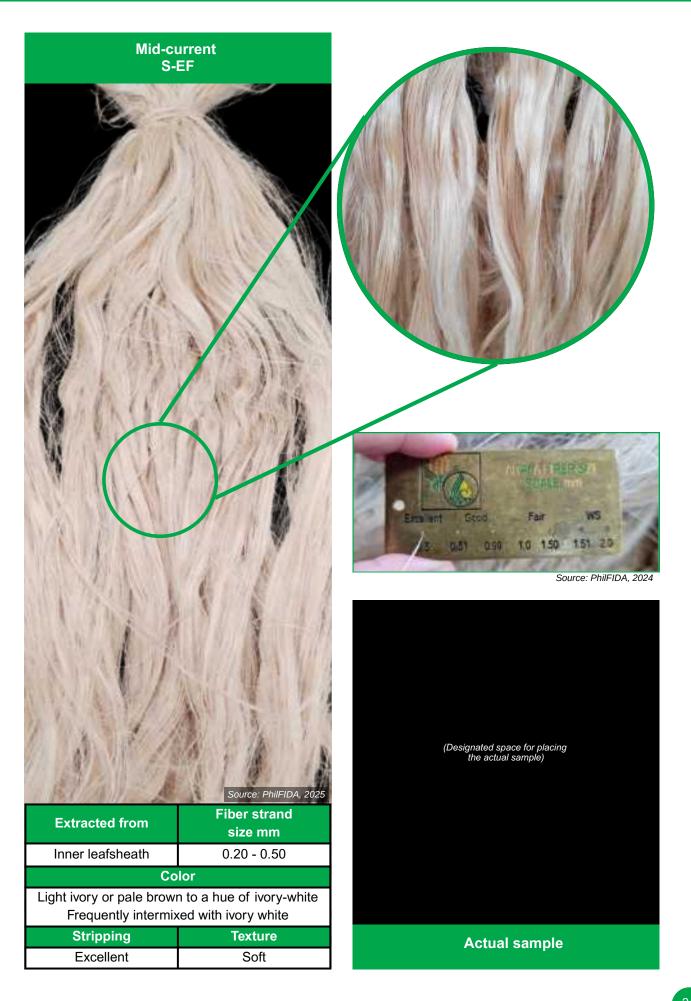
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Grade	<u>ə</u>		Description	ption		
Name	Alpha- numeric code	Extracted from	Fiber strand size (mm)	Color	Stripping	Texture
400 100	U	Next to the outer leaf sheath or similar leaf sheath source where S2 is obtained	0.51 to 0.99	Dingy white, light green and dull brown	Good	Medium soft
seconds	S-G	Same leaf sheath that produces grade S-S2	0.51 to 0.99	Light brown with occasional streaks of very light green	Good	Medium soft
	Н	Outer leaf sheath	0.51 to 0.99	Dark brown	Good	
Soft brown	т s	Brown to dark brown Intermixed with substantial portion of fiber with lighter colors In some, color approaches black	0.51 to 0.99	Light to very light brown	Good	

Grade	de		Description	ption		
Name	Alpha- numeric code	Extracted from	Fiber strand size (mm)	Color	Stripping	Texture
seronds	Ϋ́	Inner, middle and next to outer leaf sheath	1.00 - 1.50	Dull brown to dingy light brown or dingly light yellow, frequently streaked with light green	Fair	
	ЯL-S	Inner, middle and next to the outer leaf sheath	1.00 - 1.50	Light dull brown to dingy light brown or dingy light yellow with occasional streaks light green	Fair	
Medium	M1	Outer leaf sheath	1.00 - 1.50	Dark brown to almost black	Fair	
brown	S-M1	Same leafsheath from which S- H is obtained	1.00 - 1.50	Brown or nearly black	Fair	
NOTE: For the s	pindle/machin	NOTE: For the spindle/machine stripped abaca fiber, it is designated with an 'S' separated by a dash before the alphanumeric code.	d with an 'S' sepe	irated by a dash before t	he alphanumer	ic code.

(Continuation)



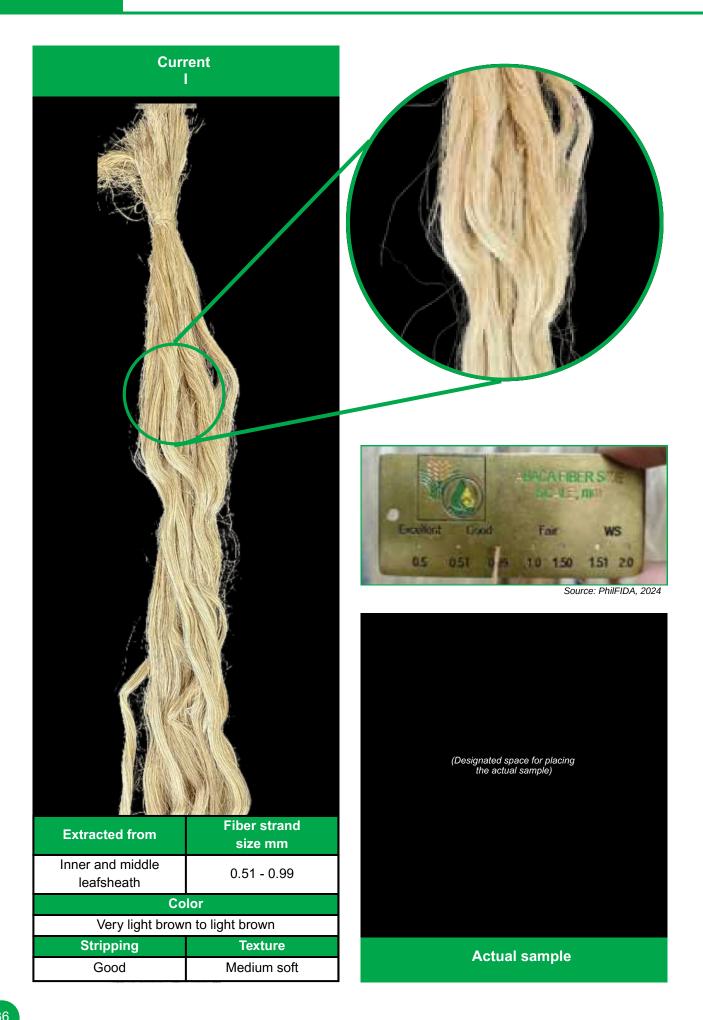










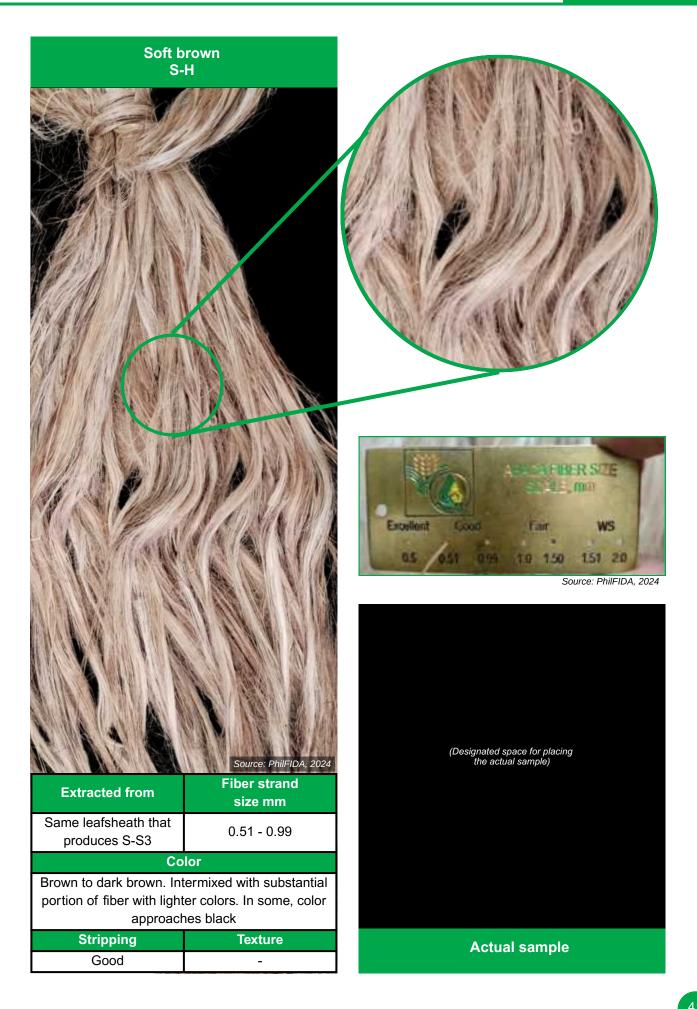












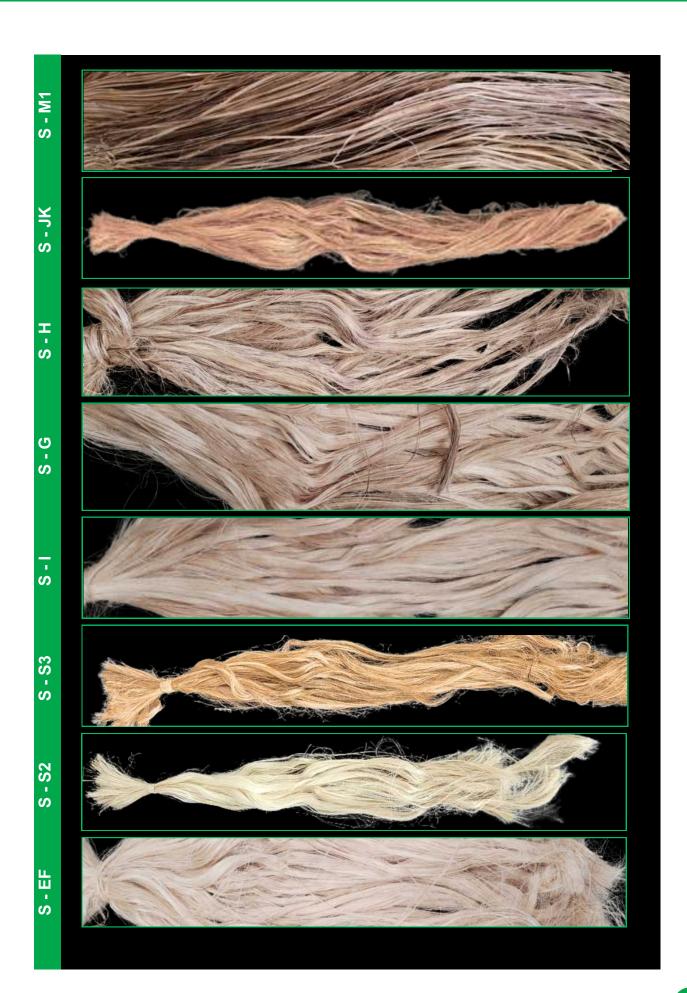










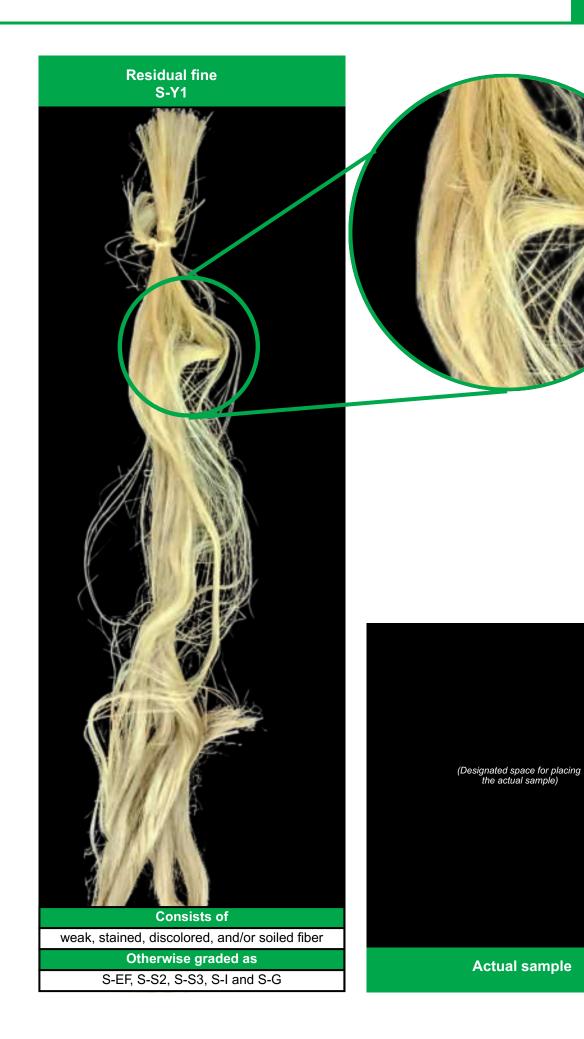




Grade		Description	
Name	Alpha- numeric code	Consists of	Otherwise graded as
Residual fine	Y1	weak, stained, discolored, and/or soiled fiber	EF, S2, S3, I and G
	S-Y1	weak, stained, discolored, and/or soiled fiber	S-EF, S-S2, S-S3, S-I and S-G
Residual fair	Y2	weak, stained, discolored, and/or soiled fiber	H, JK, M1
	S-Y2	weak, stained, discolored, and/or soiled fiber	S-H, S-JK and S-M1
String	О	Made up of strings and twisted or knotted strands of hand-stripped abaca fibers	Ordinary handmade cords used for tying hanks, bales and binding bundles of loose ungraded fibers
	S-0		
Tow	т	Less than 60cm in length	Consists of abaca tip cuttings, short, tangled and broken, resulting from sorting during the process of classification
	S-T		

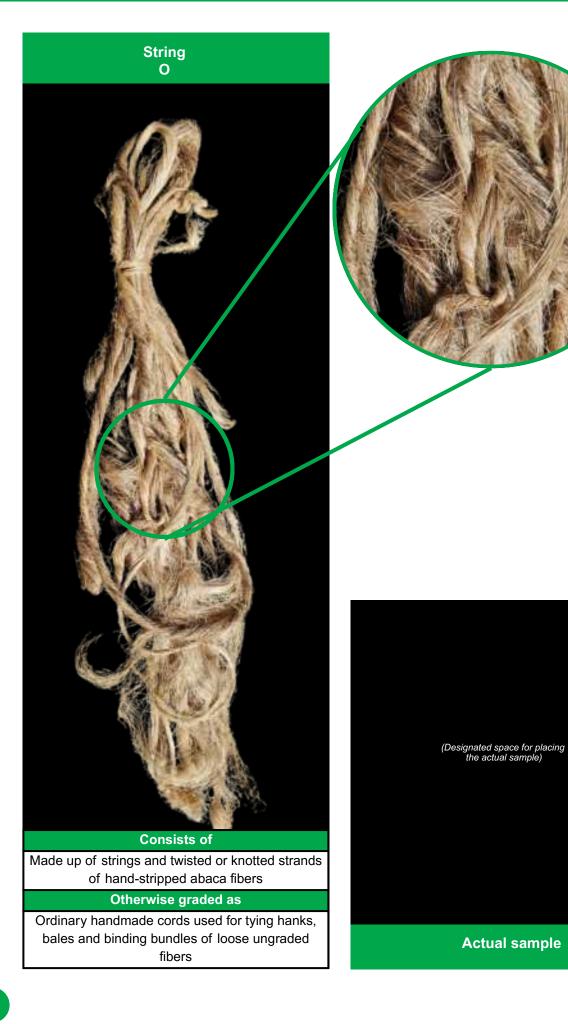
## Table 2. Residual Grades of hand and spindle/machine stripped abaca fiber

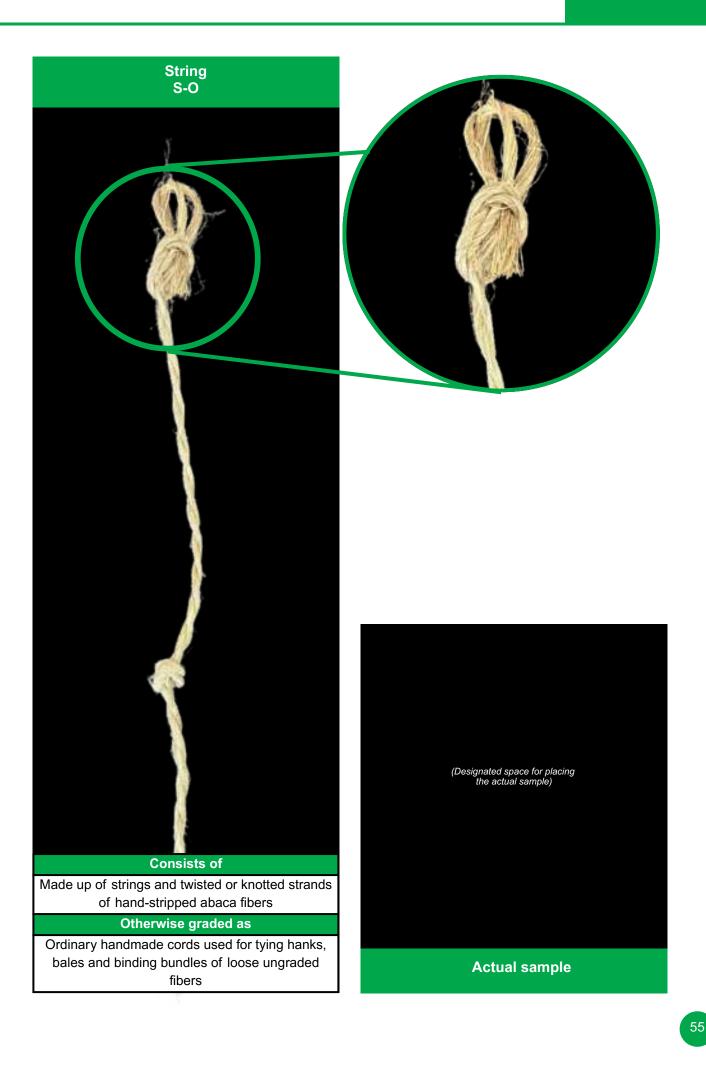




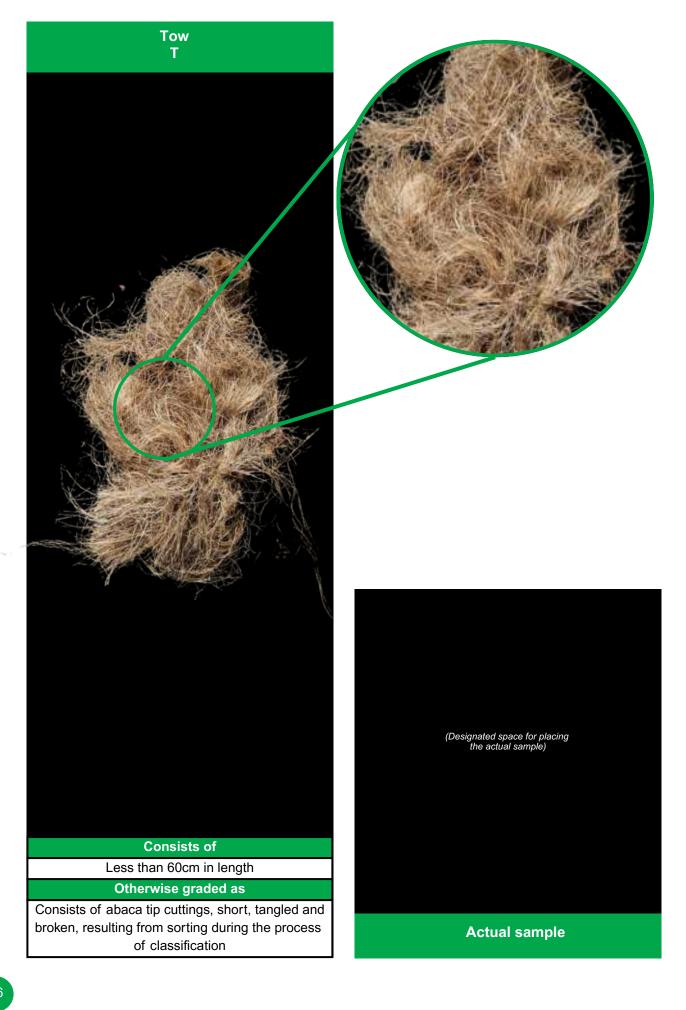
















(Designated space for placing the actual sample)

Actual sample





Grade		Description	
Name	Alpha- numeric code	Consists of	Otherwise graded as
Wide strip	WS	All fibers that are excessively strippy and woody which does not fit in any of the normal and residual grades of hand stripped and spindle / machine stripped abaca fibers.	None
	S-WS		

## Table 3. Wide Strips Grades of hand and spindle/machine stripped abaca fiber

















(Designated space for placing the actual sample)

Actual sample



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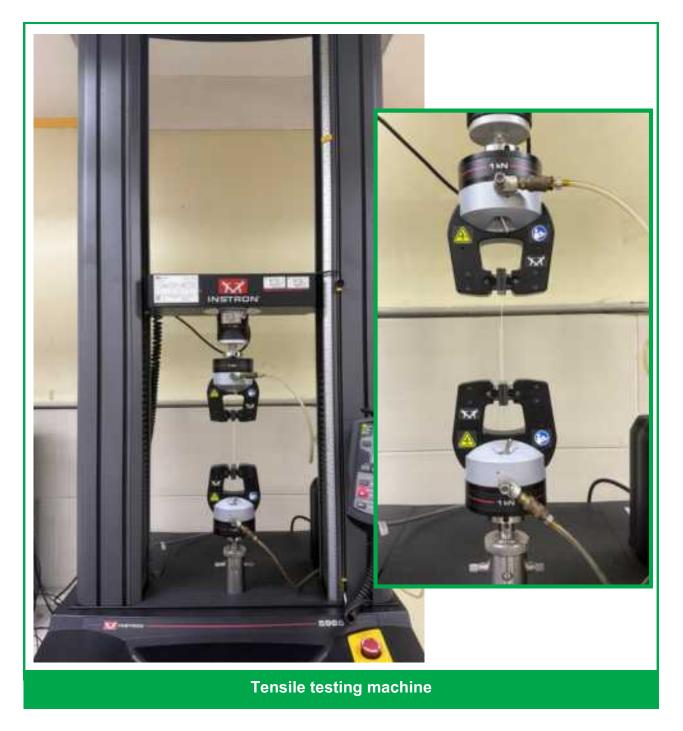
# **Section 6**

# Tolerances



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

- 6.1 Negative (-) 5% of the 35 kg f/gm tensile strength
- 6.2 Negative (-) 5% of the 60 cm length



6.3  $\,$  Positive (+) 5% of the fiber strand size for good and fair stripping



# Sampling



Sampling procedure is conducted following the baling process.

#### Sampling

The 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.



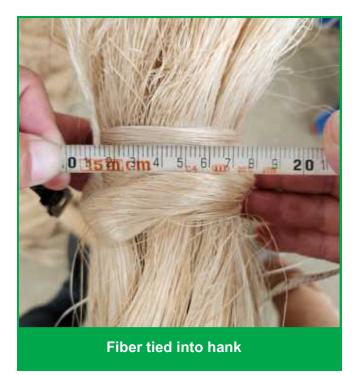
# Section 8

# Baling



Hand-stripped and spindle-stripped abaca fiber may be baled in this manner:

- 8.1 Every bale of fiber shall contain only dry fibers of the same kind of stripping, 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 Hand-stripped and spindle/machine-stripped 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.



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 2nd, 4th and 6th 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.







Process of baling fiber

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# Section 9

# Labelling

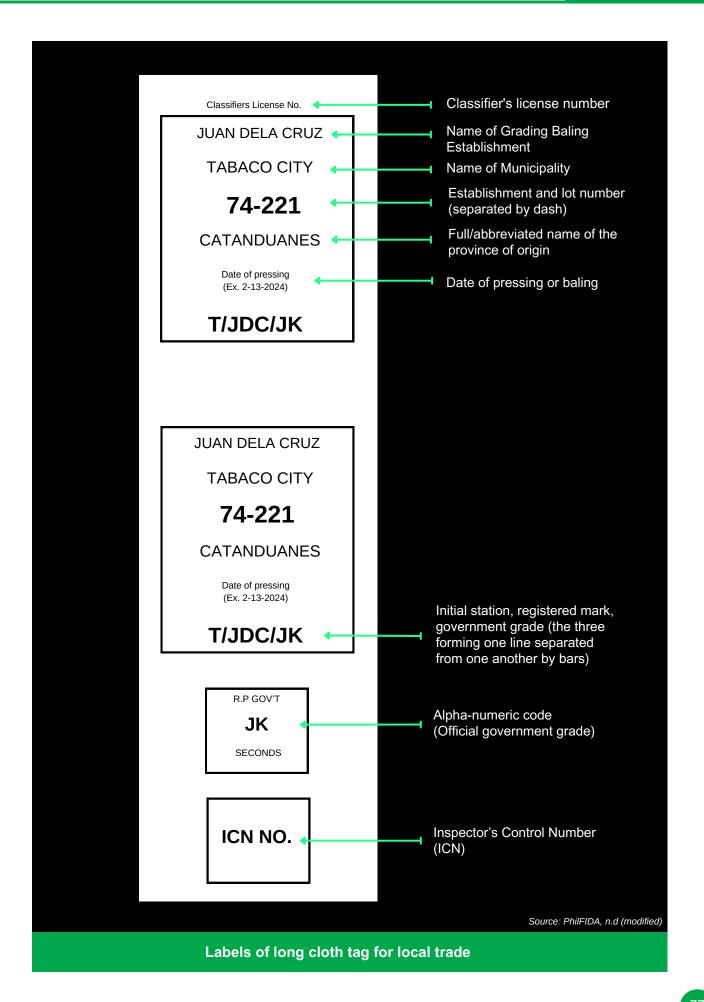


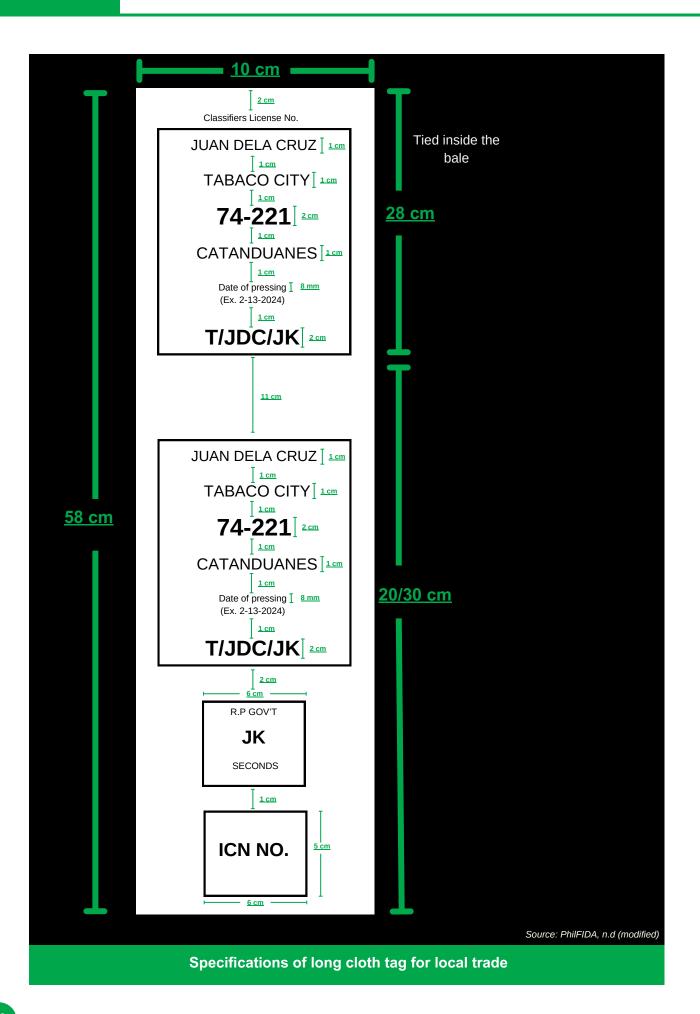
The tagging and marking of bales shall be as follows:

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.

- 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 (1½) 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; and
- 9.6.4 The letter designation of the grade of fiber contained in the bale.

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.



Actual image of square tag for export trade



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# Annex



### Use of Abaca fibers

Name	Alpha- numeric code	Uses
Mid- current	EF, S-EF	<b>Fibercrafts</b> : (handbags, hammocks, placemats, rugs, carpets, purses and wallets, fishnets, doormats, scrunches)
		<b>Handwoven fabrics:</b> sinamay, pinukpok, tinalak, dagmay Sacks, Hotpads, Hemp coasters
		Sacks, Hotpads, Hemp coasters Wall paper, Wall cover Textile
Streaky Two	S2, S-S2	<b>Cordage Products:</b> ropes, twines, marine cordage, binders, cords
		<b>Pulp and Paper manufactures</b> (tea bags, filter paper, mimeograph stencil, base tissue, sausage skin, base paper, coffee cup, microglass air filters media, x-ray negative, optical lens wiper, vacuum filter, oil filter)
		<b>Nonwovens:</b> medical gas masks and gowns, diapers, hospital linens, bed sheets
		Fibercrafts: handbags, hammocks, placemats, rugs, carpets, purses and wallets, fishnets, doormats, scrunches
		<b>Handwoven fabrics:</b> sinamay, pinukpok, tinalak, dagmay
		Wall Paper, Wall Cover Textile Furniture
Streaky Three	S3, S-S3	<b>Cordage Products:</b> ropes, twines, marine cordage, binders, cords
		Sacks, hotpads, hemp coasters

Name	Alpha- numeric code	Uses
		<b>Cordage Products:</b> ropes, twines, marine cordage, binders, cords
Current	I, S-I	<b>Pulp and Paper manufactures:</b> tea bags, filter paper, mimeograph stencil, base tissue, sausage skin, base paper, coffee cup, microglass air filters media, x-ray negative, optical lens wiper, vacuum filter, oil filter
		<b>Nonwovens:</b> medical gas masks and gowns, diapers, hospital linens, bed sheets
		<b>Cordage Products:</b> ropes, twines, marine cordage, binders, cords
Soft seconds	G, S-G	<b>Pulp and Paper manufactures:</b> tea bags, filter paper, mimeograph stencil, base tissue, sausage skin, base paper, coffee cup, cigarette paper, currency paper, chart, file folders, envelops, time cards, book binders and parchment paper, micro glass air filters media, x-ray negative, optical lens wiper, vacuum filter, oil filter
		<b>Nonwovens:</b> medical gas masks and gowns, diapers, hospital linens, bed sheets
		Handmade paper: paper sheets, stationaries, all- purpose cards, lamp shades, balls, dividers, placemats, bags, photo frames and albums, flowers, table clock
		Fibercrafts: handbags, hammocks, placemats, rugs, carpets, purses and wallets, fishnets, doormats, scrunches
		Wall Paper, Wall Cover
		<b>Cordage Products:</b> ropes, twines, marine cordage, binders, cords
Soft brown	H, S-SH	<b>Fibercrafts:</b> handbags, hammocks, placemats, rugs, carpets, purses and wallets, fishnets, doormats, scrunches
		Sacks, Hotpads, Hemp Coasters

Name	Alpha- numeric code	Uses
		Cordage Products: ropes, twines, marine cordage, binders, cords Pulp and Paper manufactures: cigarette paper, currency paper, chart, file folders, envelops, time cards, book binders and parchment paper, micro glass air filters media, x-ray negative, optical lens wiper, vacuum filter, oil filter
Seconds	JK, S-JK	<b>Nonwovens:</b> medical gas masks and gowns, diapers, hospital linens, bed sheets
		Handmade paper: paper sheets, stationaries, all- purpose cards, lamp shades, balls, dividers, placemats, bags, photo frames and albums, flowers, table clock Wall Paper, Wall Cover
		<b>Others</b> wire insulator and cable, automobile components/ composites
Medium brown	M1, S-M1	Cordage Products: ropes, twines, marine cordage, binders, cords Pulp and Paper manufactures: cigarette paper, currency paper, chart, file folders, envelops, time cards, book binders and parchment paper Others: wire insulator and cable, automobile components/composites
Residual fine and Residual Fair	Y1, S-Y1, Y2 and S- Y2	Cordage Products: ropes, twines, marine cordage, binders, cords Pulp and Paper manufactures: cigarette paper, currency paper, chart, file folders, envelops, time cards, book binders and parchment paper Handmade paper (paper sheets, stationaries, all- purpose cards, lamp shades, balls, dividers, placemats, bags, photo frames and albums, flowers, table clock) Wall Paper, Wall Cover Others: wire insulator and cable, automobile components/composites

Name	Alpha- numeric code	Uses
String and Tow	O, S-O, T, and S-T	<ul> <li>Pulp and Paper manufactures: cigarette paper, currency paper, chart, file folders, envelops, time cards, book binders and parchment paper</li> <li>Others wire insulator and cable, automobile components/ composites</li> </ul>

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# References



#### DOCUMENT REFERENCES

Administrative Circular no. 12 series of 2020 also known as "Rules and Regulations to Govern Licensing and Shipment of Philippine Commercial Fibers. Source: https://philfida.da.gov.ph/images/Issuances/administrative-circular/ac-no-12-s-2020rules-and-regulations.pdf

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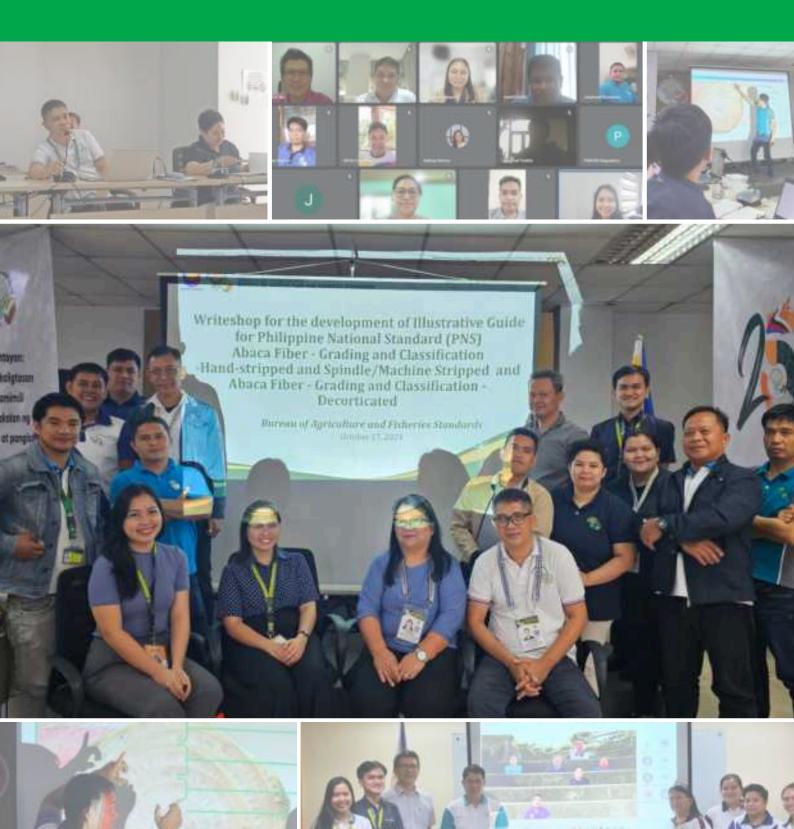
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# **Technical Working Group**



#### Department of Agriculture Technical Working Group (TWG) on the Development of the Illustrative Guide for Abaca fiber - Grading and Classification -Hand - stripped and Spindle/Machine - stripped

DA Special Order No. 369 series 2024 Creation of TWG for the development of Knowledge Products of selected Philippine National Standards

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Illustrative Guide (IG) serves as a supplementary Philippine National Standards (PNS) learning material to aid regulatory officers and other interested stakeholders in having a uniform understanding and interpretation of the PNS for its efficient adoption and implementation.



