



## Designation: D7641 – 21

# Standard Guide for Textile Fibers<sup>1</sup>

This standard is issued under the fixed designation D7641; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

## 1. Scope

1.1 This guide lists fibers used to manufacture textile products.

1.2 Specific groups of fibers are identified using tables of standard classification.

1.2.1 Animal fibers are identified by commercial name, biological name, end use, and geographic source.

1.2.2 Vegetable fibers are identified by commercial name, botanical name, staple length or description, and geographic source.

1.2.3 Mineral fibers are identified by commercial name, mineralogical name, chemical description, and geographic source.

1.2.4 Manufactured fibers are identified by commercial name, generic name, and major component.

1.3 Major fiber types used for textile purposes are further classified.

1.3.1 Manufactured fibers are identified as having either an organic base or inorganic base.

1.3.2 Natural fibers are identified as having a cellulosic, protein, or mineral base.  
<https://standards.sistech.org/standard/astm-d7641-21>

1.4 A glossary of generic names and definitions for manufactured fibers is included as additional information.

1.5 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

<sup>1</sup> This guide is under the jurisdiction of ASTM Committee D13 on Textiles and is the direct responsibility of Subcommittee D13.92 on Terminology.

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## 2. Referenced Documents

2.1 *ASTM Standards:*<sup>2</sup>

[D123 Terminology Relating to Textiles](#)

2.2 *ISO Standards:*

[ISO 2076:1999 \(E\) Textiles—Man-made Fibers—Generic Names](#)

2.3 *Other Documents:*

[Code of Federal Regulations, Title 16, Section 303.7](#)

## 3. Terminology

3.1 *Definitions:*

3.1.1 *plastic, n*—as related to textiles, a polymer which can be combined with curatives, plasticizers, and fillers that can be molded under heat and pressure.

3.1.1.1 *Discussion—General* — One of a large group of organic compounds synthesized from cellular hydrocarbons, protein, and resins. The compounds are capable of being cast, extruded, or molded into various shapes.

*Specific*—Derivation from Greek “plastikos” which means “fit for molding”.

3.2 For definitions of textile terms used in the guide see Terminology D123.

## 4. Significance and Use

4.1 This guide is intended for use as a reference to improve the understanding of the relationship between commercial name, fiber identification and geographical regions of fiber origins that make up the composition of textile products.

4.2 This guide is intended to be used as a source of information only.

4.2.1 Detailed analysis, to verify specific data related to the composition of a particular fiber, may be necessary.

## 5. Animal (Protein Base) Fibers

5.1 See Table 1.

<sup>2</sup> For referenced ASTM standards, visit the ASTM website, [www.astm.org](http://www.astm.org), or contact ASTM Customer Service at [service@astm.org](mailto:service@astm.org). For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

TABLE 1 Animal (Protein-Base) Fibers

Commercial and Biological Name <sup>4</sup>	Use	Geographical Regions
ALPACA WOOL <i>Llama glama</i>	textiles	South America, North America

TABLE 1 *Continued*

Commercial and Biological Name <sup>A</sup>		Use	Geographical Regions
American ring tail	<i>Bassariscus astutus</i>	soft brushes	North America
Angora	See Rabbit, Angora, Mohair		
Badger	<i>Meles meles</i>	soft brushes	Asia, Europe
CAMEL HAIR	{ <i>Camelus dromedarius</i>	textiles, soft	Asia
"Camel hair"	{ <i>Camelus bactrianus</i>	textiles, coarse	Asia
CASHMERE HAIR	See Squirrel	soft brushes	Asia, North America
Cattle hair	<i>Caprahircus sp</i> (Goat)	textiles	Asia
"Civet," "Black Sable"	<i>Bos taurus</i>	upholstery	Asia, Europe
"Fitch"	See Spotted Skunk	soft brushes	North America
Fox	<i>Mephitis mephitis et al</i> (Skunk)	stuffing	North America, Europe
Genet	<i>Vulpes fulva</i>	soft brushes	Africa, Asia, Europe
Goat hair	<i>Genetta</i>	soft brushes	Asia
Hog bristle	<i>Capra sp</i>	paint brushes	Asia, North America
Horse hair, body	<i>Sus scrofa</i>	upholstery, felts	Asia, Europe, North America, South America
Horse hair, mane and tail	<i>Equus caballus</i>	upholstery	Asia, Europe
Kolinksy	See Sable, red	textiles	South America
LLAMA WOOL	<i>Llama glama</i>		
Mink	See Sable, red	textiles	Asia, Africa, North America
MOHAIR	<i>Caprahircus</i> (Angora goat)	textiles	North America, Russia
Muskrat, Northern	<i>Ondatra zibethicus</i>	textiles	North America
Muskrat, Southern	<i>Ondatra rivalicia</i>	textiles	Asia, Europe, North America
Ox hair, ear	<i>Bos taurus</i>	soft brushes	Asia
Pony	<i>Equus caballus</i>	soft brushes, felts	Australia, Europe, Asia, North America
RABBIT, COMMON	<i>Oryctolagus cuniculus</i>	fur felt	Europe, North America
RABBIT, ANGORA	<i>Oryctolagus cuniculus</i>	textiles	Asia
Sable, red	<i>Mustela sibirica</i> (Kolinksy, China Mink, Jap Mink)	soft brushes, stuffing	all continents
SHEEP WOOL	<i>Ovis aries et al.</i>	textiles	
Skunk	See "Fitch"	textiles	North America
Skunk, Spotted	<i>Spilogale sp</i>	soft brushes	Asia, North America
Squirrel	<i>Sciurus vulgaris et al.</i>	soft brushes	Asia, Europe
SILK	<i>Bombyx mori</i>	textiles	Asia
SILK, TUSSAH	<i>Antheraea papilio et al.</i>	textiles	South America
VICUNA WOOL	<i>Llama vicugna</i>	textiles	

<sup>A</sup> The most common names are in capital letters; biological names are in italics.

## 6. Vegetable Fibers

6.1 See Tables 2-4.

TABLE 2 Vegetable Fibers: Seed and Fruit-Hair

<https://standards.iteh.ai/catalog/standards/sist3017/dad5-f80-47eb-8ad6-970178060635/astm-d7641-21>  
NOTE 1—The physical origins and the botanical classifications in Tables 2-4 were reviewed by the U.S. Department of Agriculture.

Commercial and Botanical Name <sup>A</sup>		Staple Length, in.	Geographical Regions
Akund	<i>Calotropis gigantea</i>		Asia
COTTON	<i>Gossypium, various sp</i>		
1. American Upland	<i>Gossypium sp</i>	¾ to 1 ⅓	all continents
2. Asiatic cultivated	<i>Gossypium hirsutum</i>		
a. Chinese	<i>Gossypium arboreum</i>	⅔ to 1	China
b. Indian	<i>Gossypium arboreum</i>	⅔ to 1	India
c. Levantine	<i>Gossypium herbaceum</i>		Asia
3. Extra-long staple barbadenses:	<i>Gossypium herbaceum</i>	½ to 1	
a. Egyptian	<i>Gossypium barbadense</i>	1 ⅓ to 1 ⅔	Egypt, Sudan, Peru
b. American Egyptian	<i>Gossypium barbadense</i>	1 ⅓ to 1 ½	United States
c. Sea Island	<i>Gossypium barbadense</i>	1 ½ to 2	West Indies
4. Medium staple, semi-rough barbadenses:			
a. Tanguis	<i>Gossypium barbadense</i>	1 ⅓ to 1 ¼	Peru
b. Ishan	<i>Gossypium barbadense</i>	1 ⅓ to 1 ¼	West Africa
c. Ashmouni (uppers)	<i>Gossypium barbadense</i>	1 ⅛ to 1 ¼	Egypt
5. Short staple, rough barbadenses:			
a. Iquitos	<i>Gossypium barbadense</i>	1 to 1 ⅓	Peru
b. Lengupa	<i>Gossypium barbadense</i>	1 ⅕ to 1 ⅓	Colombia
6. Perennial tree cottons:			
a. West Indian	<i>Gossypium hirsutum var Marie-Galante</i>	1 ⅓ to 1 ⅔	West Indies
b. Sertao and Serido	<i>Gossypium hirsutum var Marie-Galante</i>	1 ⅓ to 1 ⅔	Brazil
KAPOK	<i>Ceiba pentandra</i>	⅔ to ¼	Tropics
Milkweed Floss	<i>Asclepias various sp</i>	⅔ to ¼	North America
Ozone fiber	<i>Asclepias sp incarnata</i>	⅔ to ¼	United States
Pochote	<i>Ceiba aesculifolia</i>	⅔ to ¼	Mexico

TABLE 2 *Continued*

Commercial and Botanical Name <sup>A</sup>	Staple Length, in.	Geographical Regions
Samchu	<i>Chorisia species</i>	South America

<sup>A</sup> Preferred or most common names are in capital letters; botanical names are in italics. The abbreviation *sp* is for the word "species," the subdivisions of a genus.

TABLE 3 Vegetable Fibers: Bast and Leaf

Commercial and Botanical Name <sup>A</sup>	Description	Geographical Regions
ABACA	<i>Musa textilis</i> Neé	hard leaf fiber Philippine Islands, Central America, Borneo, Sumatra
<i>Abutilon avicinnae</i> Gaertn	See <i>Abutilon theophrasti</i> Medic medi	
<i>Abutilon longicuspe</i>	Zada buack	coarse bast fiber
<i>Abutilon periplocifolium</i>	Maholtine	coarse bast fiber
<i>Abutilon theophrasti</i> Sweet Medic medii	CHINESE JUTE	coarse bast fiber
<i>Aechmaea magdalena</i> André	<i>Pita floja</i>	fine leaf fiber
AFRICAN SISAL	<i>Agave sisalana</i> , Perrine & Engelm	hard leaf fiber
<i>Agave cantala</i> Roxb	CANTALA	hard leaf fiber
<i>Agave cocui</i> Trel	Dispopo	coarse leaf fiber
<i>Agave hexapetala</i> Jacq	Cocuiza	coarse leaf fiber
<i>Agave deweyana</i> Trel	Zapupe larga	hard leaf fiber
<i>Agave falcatata</i> Engelm	Guapilla	hard leaf fiber
<i>Agave fourcroydes</i> Lem	HENEQUEN	coarse leaf fiber
<i>Agave funkiana</i> Koch & Bouché	JAUMAVE ISTLE	hard leaf fiber
<i>Agave lespinassei</i> Trel	Zapupe fuerte	hard leaf fiber
<i>Agave letonae</i> F. W. Taylor	SALVADOR SISAL	coarse leaf fiber
<i>Agave lophantha</i> var. <i>posegeri</i> (Salm-Dyck) Berger	TULA ISTLE	hard leaf fiber
<i>Agave pesa-mulae</i> Trel	Pata de mula, pie de mula	hard leaf fiber
<i>Agave pseudotequilana</i> Trel	Mescal	hard leaf fiber
<i>Agave sisalana</i> Perrine & Engelm	SISAL	hard leaf fiber
<i>Agave striata</i> Zucc	Espandinin	hard leaf fiber
<i>Agave tequilana</i> Weber	MESCAL	hard leaf fiber
<i>Agave zapupe</i> Trel	ZAPUPE	hard leaf fiber
Ake-ire	<i>Urenia lobata</i> Cav	bast fiber
Aloes creole		
Aloes fiber		
Aloes malgache		
Ambari		
<i>Ananas comosus</i> L. (Merr)		
<i>Apocynum</i> sp		
Aramina		
Arghan		
<i>Asclepias incurnata</i> L		
Awasthe hemp		
Bamia		
BANANA		
Ban yucca		
Ban ochra		
Bariala		
Barreta		
BEAR GRASS		
Benares hemp		
Benares sunn		
<i>Billbergia infuscata</i> <sup>B</sup>		
Bimli jute		
Bimli patam }		
<i>Boehmeria nivea</i> (L) Gaud		
Bolo-bolo		
Bombay aloe		
Bombay hemp		
Bowstring hemp		
Brazilian jute		
<i>Bromelia magdalena</i>		
<i>Bromelia karatas</i> L		
<i>Bromelia laciniosa</i> Mart & Schult		
<i>Bromelia longissima</i>		
<i>Bromelia sagenaria</i>		
Broom fiber		
Brown hemp		
Cabulla		
Cabuya		

TABLE 3 *Continued*

Commercial and Botanical Name <sup>A</sup>	Description	Geographical Regions
Cabuya blanca		
Cabuya blancho		
Cabuya sin espina	<i>F. cabuya</i> var. <i>integra</i> Trel	
Cadillo		
Caesar weed }	<i>Urena lobata</i> Cav	
<i>Calotropis gigantea</i> Dry & Ait	Akund	
Canamo		
Canamo }	Spanish word for hemp	
Candilla		
Candillo }	<i>Urena lobata</i> Cav	
Canhamo	<i>Urena lobata</i> Cav	
<i>Cannabis sativa</i> L	HEMP	
CANTALA	<i>Agave cantala</i> Roxb; differs from maguey in retting	soft bast fiber
CAROA, <i>Carua</i>	<i>Neoglaziova variegata</i> Mez	all temperate zones
Carrapicho	<i>Urena lobata</i> Cav	
Cebu hemp	<i>Musa textilis</i> Née (not hemp)	
CEBU MAGUEY	<i>Agave cantala</i> Roxb (retted differently from Cantala)	
<i>Cephalonema</i> sp	Punga	bast fiber
Chanvre	French word for hemp	Belgian Congo
Chaparral yucca	<i>Hesperoyucca whipplei</i> (Torr) Trel	
China grass	<i>Boehmeria nivea</i> (L) Gaud	
CHINESE JUTE	<i>Abutilon theophrasti</i> Medic Medii	
Chingma	<i>Abutilon theophrasti</i> Medic	
Chino azul	<i>Agave tequilana</i> Weber	
Chino bermejo	<i>Agave palmaris</i> Trel	
Chique-chique	<i>Leopoldinia piassaba</i> Wallace & Archer	
Chuchao	<i>Furcraea andina</i> Trel	
Coconada hemp	<i>Crotalaria juncea</i> L (not hemp)	
Cocuiza	<i>Furcraea humboldtiana</i> Trel <i>F hexapetala</i> , (Jacq) Urb	
Cocuiza mansa	<i>Furcraea gigantea</i> Vent	
CONGO JUTE	<i>Urena lobata</i> Cav (not jute)	
<i>Corchorus capsularis</i> L	JUTE (white jute)	bast fiber
<i>Corchorus olitorius</i> L	TOSSA, DAISEE (jutes)	soft bast fiber
Cousin rouge	<i>Urena lobata</i> Cav	soft bast fiber
<i>Crotalaria juncea</i> L	SUNN (not hemp)	hard bast fiber
Cuban jute	<i>Urena</i> sp. <i>Malva</i> sp <i>Sida</i> sp (not jute)	
Cuban sisal	<i>Agave fourcroydes</i> Lem	
Culut culutan	<i>Urena lobata</i> Cav	
<i>Cytisus scutarius</i> (L) Link	Broom fiber, Spanish broom	soft bast fiber
Da	<i>Hibiscus cannabinus</i> L	Italy, Spain
DAISEE JUTE	<i>Corchorus olitorius</i> L	
Davao hemp	<i>Musa textiles</i> Née (not hemp)	
Deccan hemp	<i>Hibiscus cannabinus</i> (not hemp)	
Dha	<i>Hibiscus cannabinus</i> L	
Dispopo	<i>Agave cocui</i> Trel	
Ensete edulis (Gmel) Horan	<i>Musa ensete</i> Gmel	
Escobilla	<i>Sida</i> sp	
Espadinum	<i>Agave striata</i> Zucc	
FIQUE	<i>Furcraea macrophylla</i> Baker	
Flax	<i>Linum usitatissimum</i> L	soft bast fiber
FORMIO	<i>Phormium tenax</i> Forst	Argentina, Australia, Belarus, Belgium, Brazil, Bulgaria, Canada, Chile, China, Czech Republic, Egypt, Estonia, France, Germany, Hungary, India, Ireland, Italy, Latvia, Lithuania, Netherlands, New Zealand, Poland, Romania, Russia, Ukraine, United States, Yugoslavia
French hemp	<i>Cannabis sativa</i> L	
<i>Furcraea andina</i> Trel	Chuchao	hard leaf fiber
<i>Furcraea cabuya</i> Trel	Cabuya	hard leaf fiber
<i>Furcraea cubensis</i>	Cabulla	hard leaf fiber
<i>Furcraea geminispina</i> Jacobi	Cocuiza	hard leaf fiber
<i>Furcraea gigantea</i> Vent	Piteira, cocuiza mansa	hard leaf fiber
<i>Furcraea hexapetala</i> (Jacq) Urb	<i>Furcraea cubensis</i>	hard leaf fiber
<i>Furcraea hemboldtiana</i> Trel	Cocuiza	hard leaf fiber
<i>Furcraea macrophylla</i> Baker	FIQUE	hard leaf fiber
Galla	<i>Musa ensete</i> - <i>Ensete edulis</i> (Gmel) Horan	
Gambo hemp	<i>Hibiscus cannabinus</i> L (not hemp)	
Gombo hemp	<i>Hibiscus cannabinus</i> L (not hemp)	

TABLE 3 *Continued*

Commercial and Botanical Name <sup>A</sup>	Description	Geographical Regions
Grand cousin	<i>Urena lobata</i> Cav	
Grand mahot cousin	<i>Urena lobata</i> Cav	
Gravata	<i>Bromelia Karatus</i> L	
Guapilla	<i>Agave falcata</i> Engelm	
GUAXIMA	<i>Urena lobata</i> Cav	
Guaxima roxa	<i>Urena lobata</i> Cav	
Guaxima vermehra	<i>Urena lobata</i> Cav	
Guiazo	<i>Urena lobata</i> Cav	
HAITIAN SISAL	<i>Agave sisalana</i> Perrine & Engelm	
Hanf	German word for hemp	Austria, Bulgaria, Chile, China, Germany, Hungary, Italy, Poland, Romania, Russia, Syria, United States, Yugoslavia
HEMP	<i>Cannabis sativa</i> L	
HENEQUEN	<i>Agave fourcroydes</i> Lem	
Hennup	Dutch word for hemp	
<i>Hesperaloe funifera</i> (Koch) Trel	<i>ZAMANDOQUE</i>	Mexico
<i>Hesperoyucca whipplei</i> (Torr) Trel	<i>YUCCA</i>	United States
<i>Hibiscus cannabinus</i> L	KENAF, MESHTA, Ambari, Bimlipatam, Awasthe, Deccan, Dha, Gambo	Russia, Persia, India, South America, United States, Cuba
<i>Hibiscus abelmoschus</i> L	Musk hemp	India
<i>Hibiscus esculentus</i> L	Ochra	United States
<i>Hibiscus ferax</i> Hook	MESHTA	India, Brazil
<i>Hibiscus kitaibellifolius</i> St Hil	Juta paulista	Brazil
<i>Hibiscus radiatus</i> <sup>C</sup>	Papoula de St Francis	Brazil
<i>Hibiscus sabdariffa</i> L	ROSELLA	Java, Brazil
Ife hemp	<i>Sansevieria</i> sp (not hemp)	
Ifé	<i>Apocynum cannabinum</i> L (not hemp)	
Indian hemp (United States)	Several unrelated plants (not hemp)	
Indian hemp (India)	<i>Crotalaria</i> sp and <i>Hibiscus</i> sp (Examples are Ambari, Benares hemp, Itarsi, Sunn) <i>Billbergia infuscata</i> <sup>B</sup>	
Infuscata	Several <i>Agave</i> sp (word is a generic Mexican term)	
ISTLE	<i>Agave funkiana</i> Koch & Bouché	
IXTLE }	<i>Samuela carnerosana</i> Trel	
Istle Jaumave	<i>Yucca treculeana</i> Carr	
Istle Palma	<i>Agave lophantha</i> var <i>posegeri</i> (Salm-Dyck)	
Istle Pita	<i>Crotalaria juncea</i> L (not hemp)	
Istle Tula	<i>Hesperaloe funifera</i> (Koch) Trel	
Itarsi hemp	<i>Agave funkiana</i> Koch & Bouché	
Ixtli	<i>Agave cantala</i> Roxb different retting from maguey	
JAUMAVE ISTLE	<i>Hibiscus sabdariffa</i> L (not jute)	
Jaumave	<i>Agave sisalana</i> Perrine & Engelm	
Jaumave lechiguilla	<i>Nolina</i> sp	
JAVA CANTALA	<i>Crotalaria juncea</i> L (not hemp)	
Java jute	<i>Hibiscus kitaibali folius</i> St Hil	
JAVA SISAL	<i>Corchorus capsularis</i> L and <i>Corchorus olitorius</i> L	
Jirica	<i>Hibiscus cannabinus</i> L	
Jubblepore hemp	<i>Apocynum</i> sp	
Juta paulista	<i>Cannabis sativa</i> L	
JUTE	<i>Agave lophantha</i> var <i>posegeri</i> (Salm-Dyck)	
KENAF	Berger	
Kendyr	<i>Agave letona</i> F. W. Taylor	
KENTUCKY HEMP	See Flax	
Lechuguilla (Tula istle)	<i>Linum usitatissimum</i> L	
Letona	<i>Luffa</i> sp	
Linen		
Luffa gourd		
Luffa		
Loofah	<i>Bromelia laciniosa</i> Mart & Schultz L	
Macambira	<i>Vonitra</i> sp	
Madagascar bass	<i>Crotalaria juncea</i> L (not hemp)	
Madras hemp	Latin American term applied to many species of <i>Agave</i>	
Maguey	<i>Agave cantala</i> Roxb	
MAGUEY (CEBU)	<i>Furcraea macrophylla</i> Baker	
Maguey (Peru)	<i>Furcraea hexapetala</i> (Jacq) Urb	
Maguey (Cuba)		

TABLE 3 *Continued*

Commercial and Botanical Name <sup>A</sup>	Description	Geographical Regions
Maholtine	<i>Abutilon periplocifolium</i> Sweet	
Malva	Latin American term applied to several <i>Malvaceae</i>	
MALVA	<i>Sida micrantha</i> Schrank	
Malva blanca	<i>Urena lobata</i> Cav	
Malva listro		
Malva risco }	<i>Sida micrantha</i> Schrank	
Malva roxa	<i>Urena lobata</i> Cav	
Malva velludra		
Malvas	<i>Malache malacophylla</i> (Néc & Mart) Stand	
Manila	<i>Urena lobata</i> Cav	
Manila hemp	<i>Musa textilis</i> Née (not hemp)	
Manila maguey	<i>Musa textilis</i> Née (not hemp)	
Mano largo	<i>Agave cantala</i> Roxb	
Mauritius hemp	<i>Agave palmaris</i> Trel	
Mazatlan hemp	<i>Furcraea gigantea</i> Weber (not hemp)	
MESCAL	<i>Agave tequilana</i> Weber (not hemp)	
Mescal maguey	Fibre mixture, <i>Agave sp</i>	
MESHTA	<i>Agave tequilana</i> Weber	
Mexican sisal	<i>Hibiscus canabinus</i> L H <i>ferax</i> Hook	
Milkweed fiber	<i>Agar fourcroydes</i> Lem	soft bast fiber
	<i>Asclepias sp</i> (bast)	India
		bast fiber, also (see Sec. I) seed hair
Moorva	<i>Sansevieria sp</i>	
Musk hemp	<i>Hibiscus abelmoschus</i> L (not hemp)	
<i>Musa ensete</i> Gmel	<i>Ensete edulis</i> (Gmel) Horan	coarse leaf fiber
<i>Musa sapientum</i> L	Banana fiber	coarse leaf fiber
<i>Musa textilis</i> Née	ABACA, manila	coarse leaf fiber
Nanas sabrong	<i>Agave cantala</i> , Roxb	
Natal hemp	<i>Furcraea gigantea</i> Vent (not hemp)	
<i>Neoglaziovia variegata</i> Mez	<i>CAROA caraura</i>	hard leaf fiber
New Zealand flax	<i>Phormium tenax</i> Forst phormium or formio (not flax or hemp)	Brazil
New Zealand hemp }	BEAR GRASS	
<i>Nolina sp</i>	<i>Hibiscus esculentus</i> L	Southwest United States, Mexico
Ochra	<i>Touchar dia latifolia</i> Gaud	
Olona	<i>Urena lobata</i> Cav	
Ototo grande	<i>Urena lobata</i> Cav	
Paka	<i>Samuela carnerosana</i> Trel	
Palma	<i>Samuela carnerosana</i> Trel	
Palma barreta		
PALMA ISTLE }		
Palmilla	<i>Yucca elata</i> Engelm	
Palmyra	<i>Borassus flabellifer</i> L	
Panama hat palm	<i>Carludovica palmata</i> R & P (not a palm)	
Pangane	<i>Sansevieria Kirkii</i> Bak (not hemp)	
Pangane hemp		
Papoula de St Francis	<i>Hibiscus ferax</i> Hook	
Pata de mula	<i>Agave pes-mulae</i> Trel	
Pavonia malacophylla Wright		
Pavonia schimperiana Hochst & A. Rich	<i>Malva relludo</i> UACIMA	bast fiber
Pavonia tomentosa Hochst & A. Rich	<i>Crotalaria juncea</i> L ( <i>C tenuifolia</i> Roxb) (not hemp)	Brazil
Phillibit black hemp	<i>Agave cantala</i> Roxb	
Philippine maguey	<i>Phormium tenax</i> Forst	
PHORMIUM	PHORMIUM	hard leaf fiber
<i>Phormium tenax</i> Forst	<i>Agave pes-mulae</i> Trel	Argentina, Chile, New Zealand, St. Helena
Pie de mula	<i>Ananas comosus</i> (L) Merr	
Pineapple fibre (pina)	<i>Aechmea magdalena</i> André	
Pineapple (wild)	Latin-American name for many different hard fibers	
Pita	<i>Aechmea magdalena</i> André	
Pita floya (floia)	<i>Yucca treculeana</i> Carr	
PITA ISTLE		
Pita palma }	<i>Furcraea gigantea</i> Vent	
PITEIRA	<i>Furcraea hexapetala</i> (Jacq) Urb	
Pitre (peetray)	<i>Agave cantala</i> Roxb	
POEPOES	<i>Thespesia lampas</i> Dalz & Dalz & Gibbs	
Polompom	<i>Ceiba aesculifolia</i> (H.B.K.) Britt & F. G.	
Pochote	Bak	
Pseudananas sagenarius (Arruda)	<i>Bromelia sagenaria</i>	soft leaf fiber
Camargo	<i>Cephalonema sp</i>	bast fiber
Punga	<i>Sida rhombifolia</i> L (not hemp)	Brazil
Queensland hemp	<i>Boehmeria nivea</i> L Gaud	Belgian Congo
RAMIE		

TABLE 3 *Continued*

Commercial and Botanical Name <sup>A</sup>	Description	Geographical Regions
RATTAN		
Rhea	<i>Calamus sp</i>	
ROSELLE, rosella	<i>Boehmeria nivea L Gaud</i>	
Samandoca	<i>Hibiscus sabdariffa L</i>	
<i>Samuela carnerosana</i> Trel	<i>Hesperaloe funifera</i> (Koch) Trel	
Salvador henequen	<i>PALMA ISTLE</i>	leaf fiber
SAN SALVADOR SISAL }	<i>Agave letonae F. W. Taylor</i>	Mexico
<i>Sansevieria cylindrica</i> Boj		
<i>Sansevieria Kirkii</i> Bak	Ifé	hard leaf fiber
<i>Sansevieria sp</i>	Pangane	hard leaf fiber
SANSEVIERIA	Bowstring hemp (not hemp)	hard leaf fiber
<i>Sansevieria trifasciata</i> Prain	<i>Sansevieria sp</i>	hard leaf fiber
Scaahuista	<i>Nolina sp</i>	hard leaf fiber
Scioia	<i>Ensete edulis</i> (Gmel) Horan	
Seonie hemp	<i>Crotalaria juncea L</i> (not hemp)	
<i>Sida micrantha</i> Schrank	Escobilla	soft bast fiber
Sidamo	<i>Ensete edulis</i> (Gmel) Horan	India, Australia, Brazil
<i>Sida rhombifolia L</i>	Queensland hemp (not hemp)	
Silk grass	<i>Aechma magdalena</i> André	Australia
SISAL	<i>Agave sisalana</i> Perrine & Engelm	
Sisal weisz	<i>Agave fourcroydes</i> Lem	
Soap weed	<i>Yucca glauca</i> Nutt	
Soft leaf fiber	<i>Pseudananas sagenarius</i> (Arruda) Camargo	
SOUUDAN SISAL	<i>Agave sisalana</i> Perriné & Engelm	
Spanish broom	<i>Cytisus scoparius</i> (L) Link	
<i>Spartium junceum L</i>	Brom fibre	Southern Europe
Spanish dagger	<i>Yucca macrocarpa</i> (Torr) Coville	
St Francis poppy	<i>Hibiscus ferax</i> Hook	
St Helena hemp	<i>Phormium tenax</i> Forst (not hemp)	
SUNN	<i>Crotalaria juncea L</i>	
Swamp milkweed	<i>Asclepias inca nata L</i>	
TAMPICO	<i>Agave funkiana</i> Koch & Bouché, and A. <i>lophantha</i> var <i>posegeri</i> (Salm-Dyck) Berger	
TEQUILA	<i>Agave tequilana</i> Weber	
<i>Thespisia lampas</i> Dalz & Dalz & Gibbs	Polom pom	soft bast fiber
<i>Thespisia populnea</i> Sol. & Correa		Indochina
Tientsin jute	<i>Abutilon theophrasti</i> Medic Medii (not jute)	
Toja	<i>Urena lobata</i> Cav	
TOSSA	<i>Corchorus olitorius L</i>	
<i>Touchardia latifolia</i> Gaud	Olona	soft bast fiber
TULA ISTLE	<i>Agave lophantha</i> var <i>posegeri</i> (Salm-Dyck) Berger	Hawaii
Uacima	<i>Urenal lobata</i> Cav	
Uaxima		
<i>Urena lobata</i> Cav	CONGO JUTE, GUAXIMA	
<i>Urena sinuata</i> Wedd	Cuban jute, Kunjia	
<i>Urtica nivea L</i>	RAMIE, <i>Boehmeria nivea</i> (L.) Gaud	
Victoria sisal	<i>Agave fourcroydes</i> Lem	
Warangel hemp	<i>Crotalaria juncea L</i> (not hemp)	
Yacci	<i>Agave sisalana</i> Perrine & Engelm	
Yaxi	<i>Agave fourcroydes</i> Lem	
Yucatan sisal		hard leaf fiber
YUCCA <sup>D</sup>	BEAR GRASS, soap weed	
<i>Yucca angustifolia</i> <sup>E</sup>	BEAR GRASS, soap weed	
<i>Yucca glauca</i> Nutt	PITA ISTLE	
<i>Yucca treculena</i> Carr		
<i>Yucca</i> <sup>D</sup>		
Zada buack	<i>Abutilon longicuspe</i> Hochst & A. Rich	
Zamandoque	<i>Hesperaloe funifera</i> (Koch) Trel	
ZAPUPE <sup>E</sup>	<i>Agave zapupe</i> Trel	

<sup>A</sup> Preferred or most common names are in capital letters; botanical names are in italics. The abbreviation *sp* is for the word "species," the subdivisions of a genus.

<sup>B</sup> Not found in botanical literature.

<sup>C</sup> Authority cannot be determined.

<sup>D</sup> Many *Yucca* species yield fiber; the principal ones are included in this table.

<sup>E</sup> Many *Agave* species yield fiber known as zapupe.