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Standard Guide for Textile Fibers¹

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^{e1} NOTE—Editorial changes were made to Annex A1 in August 2014.

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.
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1.3.2 Natural fibers are identified as having a cellulosic, protein, or mineral base.

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.

2. Referenced Documents

2.1 ASTM Standards:²

D123 Terminology Relating to Textiles

2.2 ISO Standards:

ISO 2076:1999 (E) Textiles—Man-made Fibers—Generic Names

¹ This guide is under the jurisdiction of ASTM Committee D13 on Textiles and is the direct responsibility of Subcommittee D13.92 on Terminology. Current edition approved July 1, 2014/Oct. 1, 2021. Published August 2015/October 2021. Originally approved in 2010. Last previous edition approved in 2014 as D7641-10 (2014)^{e1}. DOI: 10.1520/D7641-10R14E01-10.1520/D7641-21.

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For Annual Book of ASTM Standards volume information, refer to the standard's Document Summary page on the ASTM website.

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.

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TABLE 1 Animal (Protein-Base) Fibers

Commercial and Biological Name ^A	ASTM D7641-21	Use	Geographical Regions
ALPACA WOOL	<i>Llama glama</i>	textiles	South America, North America
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
	{ <i>Camelus dromedarius</i>	textiles, soft	Asia
CAMEL HAIR	<i>Camelus bactrianus</i>	textiles, coarse	Asia
“Camel hair”	See Squirrel	soft brushes	Asia, North America
CASHMERE HAIR	<i>Caprahircus sp</i> (Goat)	textiles	Asia
Cattle hair	<i>Bos taurus</i>	upholstery	Asia, Europe
“Civet,” “Black Sable”	See Spotted Skunk		
“Fitch”	<i>Mephitis mephitis et al</i> (Skunk)	soft brushes	North America
Fox	<i>Vulpes fulva</i>	stuffing	North America, Europe
Genet	<i>Genetta</i>	soft brushes	Africa, Asia, Europe
Goat hair	<i>Capra sp</i>	soft brushes	Asia
Hog bristle	<i>Sus scrofa</i>	paint brushes	Asia, North America
Horse hair, body	<i>Equus caballus</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		
LLAMA WOOL	<i>Llama glama</i>	textiles	South America
Mink	See Sable, red		
MOHAIR	<i>Caprahircus</i> (Angora goat)	textiles	Asia, Africa, North America
Muskrat, Northern	<i>Ondatra zibethicus</i>	textiles	North America, Russia
Muskrat, Southern	<i>Ondatra ruficilia</i>	textiles	North America
Ox hair, ear	<i>Bos taurus</i>	soft brushes	Asia, Europe, North America
Pony	<i>Equus caballus</i>	soft brushes, felts	Asia
RABBIT, COMMON	<i>Oryctolagus cuniculus</i>	fur felt	Australia, Europe, Asia, North America
RABBIT, ANGORA	<i>Oryctolagus cuniculus</i>	textiles	Europe, North America
Sable, red	<i>Mustela sibirica</i> (Kolinksy, China Mink, Jap Mink)	soft brushes, stuffing	Asia
SHEEP WOOL	<i>Ovis aries et al.</i>	textiles	all continents
Skunk	See “Fitch”		
Skunk, Spotted	<i>Spilogale sp</i>	soft brushes	North America
Squirrel	<i>Sciurus vulgaris et al.</i>	soft brushes	Asia, North America
SILK	<i>Bombyx mori</i>	textiles	Asia, Europe

TABLE 1 *Continued*

Commercial and Biological Name ^A		Use	Geographical Regions
SILK, TUSSAH VICUNA WOOL	<i>Antheraea paphia et al.</i> <i>Llama vicugna</i>	textiles textiles	Asia South America

^A 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

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 ^A		Staple Length, in.	Geographical Regions
Akund	<i>Calotropis gigantes</i>		Asia
COTTON	<i>Gossypium, various sp</i>		
1. American Upland	<i>Gossypium sp</i>		
2. Asiatic cultivated	<i>Gossypium hirsutum</i>	9/4 to 17/16	all continents
a. Chinese	<i>Gossypium arboreum</i>	5/8 to 1	China
b. Indian	<i>Gossypium arboreum</i>	5/8 to 1	India
c. Levantine	<i>Gossypium herbaceum</i>	1/2 to 1	Asia
3. Extra-long staple barbadenses:	<i>Gossypium herbaceum</i>	1/2 to 1	
a. Egyptian	<i>Gossypium barbadense</i>	1 1/8 to 1 5/8	Egypt, Sudan, Peru
b. American Egyptian	<i>Gossypium barbadense</i>	1 1/8 to 1 1/2	United States
c. Sea Island	<i>Gossypium barbadense</i>	1 1/2 to 2	West Indies
4. Medium staple, semi-rough barbadenses:			
a. Tanguis	<i>Gossypium barbadense</i>	1 1/8 to 1 1/4	Peru
b. Ishan	<i>Gossypium barbadense</i>	1 1/8 to 1 1/4	West Africa
c. Ashmouni (uppers)	<i>Gossypium barbadense</i>	1 1/16 to 1 1/8	Egypt
5. Short staple, rough barbadenses:			
a. Iquitos	<i>Gossypium barbadense</i>	1 to 1 1/16	Peru
b. Lengupa	<i>Gossypium barbadense</i>	1 5/16 to 1 1/16	Colombia
6. Perennial tree cottons:			
a. West Indian	<i>Gossypium hirsutum var Marie-Galante</i>	1 1/8 to 1 3/8	West Indies
b. Sertao and Serido	<i>Gossypium hirsutum var Marie-Galante</i>	1 1/8 to 1 3/8	Brazil
KAPOK	<i>Ceiba pentandra</i>	9/4 to 1/4	Tropics
Milkweed Floss	<i>Asclepias various sp</i>	3/4 to 1/4	North America
Ozone fiber	<i>Asclepias sp incarnata</i>		United States
Pochote	<i>Celba aesculifolia</i>		Mexico
Samchu	<i>Chorisia species</i>		South America

^A 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 ^A	Description	Geographical Regions
ABACA <i>Musa textilis</i> Néé	hard leaf fiber	Philippine Islands, Central America, Borneo, Sumatra
<i>Abutilon avencinnae</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>Aechmae 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 falcata</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 lophanta</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	See <i>Furcraea gigantea</i> Vent true aloe is not a fiber plant	
Ambari		
<i>Ananas comosus</i> L. (Merr)	<i>Hibiscus cannabinus</i> L	coarse bast fiber
<i>Apocynum</i> sp	PINEAPPLE FIBER	fine leaf fiber
Aramina	Kendry	soft bast fiber
Arghan	<i>Urenia lobata</i> Cav	bast fiber
<i>Asclepias incurnata</i> L	<i>Aechmea magdalena</i> André	
Awasthe hemp	Swamp milk weed	soft bast fiber
Bamia	<i>Hibiscus cannabinus</i> L (not hemp)	bast fiber
BANANA	<i>Urenia lobata</i> Cav	
Banana yucca	<i>Musa sapientum</i> L	leaf fiber
Ban ochra	<i>Yucca mohavensis</i> Sarg	
Bariala	<i>Urenia lobata</i> Cav	
Barreta	<i>Sida micrantha</i> Schrank	
BEAR GRASS	<i>Samuelia carnerosana</i> Trel	
Benares hemp	<i>Nolina</i> sp, <i>Yucca</i> sp	
Benares sunn	<i>Crotalaria juncea</i> L (not hemp)	
<i>Billbergia infuscata</i> ^B	<i>Crotalaria</i>	
Bimli jute	Infuscata	soft leaf fiber
Bimli patam }		
<i>Boehmeria nivea</i> (L) Gaud	<i>Hibiscus cannabinus</i> L (not jute)	
Bolo-bolo	RAMIE, China grass	soft bast fiber
Bombay aloe	<i>Urenia lobata</i> Cav	
Bombay hemp	<i>Furcraea gigantea</i> Vent (not true aloe)	
Bowstring hemp	<i>Crotalaria juncea</i> L (not hemp)	
Brazilian jute	<i>Sansevieria</i> sp (not hemp)	
	<i>Corchorus</i> sp (<i>Hibiscus</i> and <i>Urenia</i> are not jute)	
<i>Bromelia magdalena</i>	See <i>Aechmea magdalena</i> André	
<i>Bromelia karatas</i> L	Gravata	soft leaf fiber
<i>Bromelia laciniosa</i> Mart & Schult	Macambira	soft leaf fiber
<i>Bromelia longissima</i>	<i>Aechmea magdalena</i> André	soft leaf fiber
<i>Bromelia sagenaria</i>	<i>Pseudolaranus sagenarius</i> (Arruda) Camargo	soft leaf fiber
Broom fiber	<i>Cystisus scoparius</i> (L) Link, and/or <i>Spartium junceum</i> L	
Brown hemp	<i>Crotalaria juncea</i> L (not hemp)	
Cabulla	<i>Furcraea cabuya</i> Trel	
Cabuya	<i>Furcraea cabuya</i> Trel	
Cabuya blanca		
Cabuya blancho		
Cabuya sin espina	<i>F. cabuya</i> var. <i>integra</i> Trel	
Cadillo		
Caesar weed }	<i>Urenia lobata</i> Cav	

TABLE 3 *Continued*

Commercial and Botanical Name ^A	Description	Geographical Regions	
<i>Calotropis gigantea</i> Dry & Ait	Akund		
Canamo	Spanish word for hemp		
Canamo }			
Candilla			
Candillo }	<i>Urena lobata</i> Cav		
Canhamo	<i>Urena lobata</i> Cav		
<i>Cannabis sativa L</i>	HEMP		
CANTALA	<i>Agave cantala</i> Roxb; differs from maguey in retting	soft bast fiber	all temperate zones
CAROA, <i>Carua</i>	<i>Neoglaziovia variegata</i> Mez		
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	Belgian Congo
Chanvre	French word for hemp		
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 andine</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)	bast fiber	Belgian Congo, Brazil, Argentina, Venezuela, Cuba
<i>Corchorus capsularis</i> L	JUTE (white jute)	soft bast fiber	Pakistan, India
<i>Corchorus olitorius</i> L	TOSSA, DAISEE (jutes)	soft bast fiber	Pakistan, India
Cousin rouge	<i>Urena lobata</i> Cav		
<i>Crotalaria juncea</i> L	SUNN (not hemp)	hard bast fiber	India
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 scoparius</i> (L) Link	Broom fiber, Spanish broom	soft bast fiber	Italy, Spain
Da	<i>Hibiscus cannabinus</i> L		
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		
Espadín	<i>Agave striata</i> Zucc		
FIQUE	<i>Furcraea macrophylla</i> Baker		
Flax	<i>Linum usitatissimum</i> L	soft bast fiber	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
FORMIO	<i>Phormium tenax</i> Forst		
French hemp	<i>Cannabis sativa</i> L		
<i>Furcraea andina</i> Trel	Chuchao	hard leaf fiber	Ecuador
<i>Furcraea cabuya</i> Trel	Cabuya	hard leaf fiber	Central America
<i>Furcraea cubensis</i>	Cabulla	hard leaf fiber	Haiti, Cuba, Venezuela, Dominican Republic
<i>Furcraea geminispina</i> Jacobi	Cocuiza	hard leaf fiber	Venezuela
<i>Furcraea gingantea</i> Vent	Piteira, cocuiza mansa	hard leaf fiber	Mauritius, Venezuela, Brazil, Tropics
<i>Furcraea hexapetala</i> (Jacq) Urb	<i>Furcraea cubensis</i>	hard leaf fiber	Haiti, Cuba, Venezuela, Dominican Republic
<i>Furcraea humboldtiana</i> Trel	Cocuiza	hard leaf fiber	Venezuela
<i>Furcraea macrophylla</i> Baker	FIQUE	hard leaf fiber	Colombia
Galla	<i>Musa ensete-Ensete edulis</i> (Gmel) Horan		
Gambo hemp	<i>Hibiscus cannabinus</i> L (not hemp)		
Gombo hemp	<i>Hibiscus cannabinus</i> L (not hemp)		
Grand cousin	<i>Urena lobata</i> Cav		
Grand mahot cousin	<i>Urena lobata</i> Cav		
Gravata	<i>Bromelia Karatas</i> L		
Guapilla	<i>Agave falcata</i> Engelm		
GUAXIMA	<i>Urena lobata</i> Cav		
Guaxima roxa	<i>Urena lobata</i> Cav		

TABLE 3 *Continued*

Commercial and Botanical Name ^A	Description	Geographical Regions	
Guaxima vermehlia	<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 L</i>		
HENEQUEN	<i>Agave fourcroydes</i> Lem		
Hennup	Dutch word for hemp		
<i>Hesperaloe funifera</i> (Koch) Trel	ZAMANDOQUE	hard leaf fiber	Mexico
<i>Hesperoyucca whipplei</i> (Torr) Trel	YUCCA	hard leaf fiber	United States
<i>Hibiscus cannabinus L</i>	KENAF, MESHTA, Ambari, Bimlipatam, Awasthe, Deccan, Dha, Gambo	bast fiber	Russia, Persia, India, South America, United States, Cuba
<i>Hibiscus abelmoschus L</i>	Musk hemp	soft bast fiber	India
<i>Hibiscus esculentus L</i>	Ochra	soft bast fiber	United States
<i>Hibiscus ferox</i> Hook	MESHTA	soft bast fiber	India, Brazil
<i>Hibiscus kitabelifolius</i> St Hil	Juta paulista	soft bast fiber	Brazil
<i>Hibiscus radlatus</i> ^C	Papoula de St Francis	soft bast fiber	Brazil
<i>Hibiscus sabdariffa L</i>	ROSELLA	soft bast fiber	Java, Brazil
Ife hemp	<i>Sansevieria</i> sp (not hemp)		
Ifé	<i>Apocynum cannabinum L</i> (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)		
Infuscata	<i>Billbergia infuscata</i> ^B		
ISTLE	Several <i>Agave</i> sp (word is a generic Mexican term)		
IXTLE }	<i>Agave funkiana</i> Koch & Bouché		
Istle Jaumave	<i>Samuelia carnerosana</i> Trel		
Istle, Palma	<i>Yucca treculeana</i> Carr		
Istle Pita	<i>Agave lophantha</i> var <i>poselgeri</i> (Salm-Dyck)		
Istle Tula	Berger		
Itarsi hemp	<i>Crotalaria juncea L</i> (not hemp)		
Ixtli	<i>Hesperaloe funifera</i> (Koch) Trel		
JAUMAVE ISTLE			
Jaumave			
Jaumave Ichiguilla	<i>Agave funkiana</i> Koch & Bouché		
JAVA CANTALA	<i>Agave cantala</i> Roxb different retting from maguey		
Java jute	<i>Hibiscus sabdariffa L</i> (not jute)		
JAVA SISAL	<i>Agave sisalana</i> Perrine & Engelm		
Jirica	<i>Nolina</i> sp		
Jubblepore hemp	<i>Crotalaria juncea L</i> (not hemp)		
Juta paulista	<i>Hibiscus kitaibali folius</i> St Hil		
JUTE	<i>Corchorus capsularis L</i> and <i>Corchorus olitorius L</i>		
KENAF	<i>Hibiscus cannabinus L</i>		
Kendyr	<i>Apocynum</i> sp		
KENTUCKY HEMP	<i>Cannabis sativa L</i>		
Lechuguilla (Tula istle)	<i>Agave lophantha</i> var <i>poselgeri</i> (Salm-Dyck)		
Letona	Berger		
Linen	<i>Agave letonae</i> F. W. Taylor		
Luffa gourd	See Flax		
Luffa	<i>Linum usitatissimum L</i>		
Loofah	<i>Luffa</i> sp		
Macambira	<i>Bromelia laciniosa</i> Mart & Schultz L		
Madagascar bass	<i>Vonitra</i> sp		
Madras hemp	<i>Crotalaria juncea L</i> (not hemp)		
Maguey	Latin American term applied to many species of Agave		
MAGUEY (CEBU)	<i>Agave cantala</i> Roxb		
Maguey (Peru)	<i>Furcraea macrophylla</i> Baker		
Maguey (Cuba)	<i>Furcraea hexapetala</i> (Jacq) Urb		
Maholtine	<i>Abutilon periplocifolium</i> Sweet		
Malva	Latin American term applied to several Malvaceae		
MALVA	<i>Sida micrantha</i> Schrank		
Malva blanca	<i>Urena lobata</i> Cav		

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TABLE 3 *Continued*

Commercial and Botanical Name ^A	Description	Geographical Regions
Malva listro		
Malva risco }	<i>Sida micrantha</i> Schrank	
Malva roxa	<i>Urena lobata</i> Cav	
Malva velluda	<i>Malache malacophylla</i> (Néc & Mart) Stand	
Malvas	<i>Urena lobata</i> Cav	
Manila	<i>Musa textilis</i> Née (not hemp)	
Manila hemp	<i>Musa textilis</i> Née (not hemp)	
Manila maguey	<i>Agave cantala</i> Roxb	
Mano largo	<i>Agave palmaris</i> Trel	
Mauritius hemp	<i>Furcraea gigantea</i> Weber (not hemp)	
Mazatlan hemp	<i>Agave tequilana</i> Weber (not hemp)	
MESCAL	Fibre mixture, <i>Agave sp</i>	
Mescal maguey	<i>Agave tequilana</i> Weber	
MESHTA	<i>Hibiscus canabinus</i> L H <i>ferax</i> Hook	soft bast fiber
Mexican sisal	<i>Agar fourcroydes</i> Lem	bast fiber, also (see Sec. I)
Milkweed fiber	<i>Asclepias sp</i> (bast)	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	Ethiopia
<i>Musa textilis</i> Née	ABACA, manila	Tropics
Nanas sabrong	<i>Agave cantala</i> , Roxb	Philippine Islands, Borneo, Sumatra
Natal hemp	<i>Furcraea gigantea</i> Vent (not hemp)	
<i>Neoglaziovia variegata</i> Mez	CAROA caraua	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>Touchardia 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 ferox</i> Hook	
Pata de mula	<i>Agave pes-mulae</i> Trel	
Pavonia malacophylla Wright		ASTM D7641-21
Pavonia schimperiana Hochst & A. Rich	<i>Malva relludo</i> UACIMA	
Pavonia tomentosa Hochst & A. Rich	<i>Crotalaria juncea</i> L (<i>C tenuifolia</i> Roxb) (not hemp)	bast fiber
Phillibit black hemp	<i>Agave cantala</i> Roxb	Brazil
Philippine maguey	<i>Phormium tenax</i> Forst	
PHORMIUM	<i>PHORMIUM</i>	
<i>Phormium tenax</i> Forst	<i>Agave pes-mulae</i> Trel	hard leaf fiber
Pie de mula	<i>Ananas comosus</i> (L) Merr	Argentina, Chile, New Zealand, St. Helena
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 }		
PITEIRA	<i>Furcraea gigantea</i> Vent	
Pitre (peetray)	<i>Furcraea hexapetala</i> (Jacq) Urb	
POEPOES	<i>Agave cantala</i> Roxb	
Polompom	<i>Thespesia lampas</i> Dalz & Dalz & Gibbs	
Pochote	<i>Ceiba aesculifolia</i> (H.B.K.) Britt & F. G. Bak	
Pseudananas sagenarius (Arruda)		
Camargo	<i>Bromelia sagenaria</i>	soft leaf fiber
Punga	<i>Cephalonema sp</i>	bastian fiber
Queensland hemp	<i>Sida rhombifolia</i> L (not hemp)	Belgian Congo
RAMIE	<i>Boehmeria nivea</i> L Gaud	
RATTAN	<i>Calamus sp</i>	
Rhea	<i>Boehmeria nivea</i> L Gaud	
ROSELLE, rosella	<i>Hibiscus sabdariffa</i> L	
Samandoca	<i>Hesperaloe funifera</i> (Koch) Trel	
<i>Samuela carnerosana</i> Trel	PALMA ISTLE	leaf fiber
		Mexico