The Textile Kit ecotedition



Eco+ Edition ©2020 ATEXINC, Corporation

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The **Eco+ Edition** of **The Textile Kit** is aimed at helping future textile industry professionals, as well as consumers, explore the challenges in achieving a more sustainable textile industry. Sustainability is a complicated goal, sometimes at odds with the way consumers and the industry view textile products. The desire for greater sustainability requires new ways of thinking. It may lead consumers to buy fewer products of higher quality, which last longer, and to re-use and recycle more, instead of tossing lightly used products into a landfill. Such mindsets profoundly affect both production and consumption, in a culture where currently over half of clothing produced is sent to a landfill or incinerated within a year of being made.

As the portion of the fashion industry with the most obvious environmental impact on air and water quality, the textile industry has made strides to become more environmentally friendly. Some notable manufacturers and retailers are leading the way via strong sustainability initiatives. But cost and competition, or perhaps a lack of awareness, have caused other companies to continue in old ways that "still work," but may not be sustainable over time. Many textile goods are imported from less developed countries with lower environmental standards, where costly changes for the sake of the environment are unlikely in the short run. The task of this generation is to make choices that move us in a more sustainable direction.

While one product may not "sound" as good as another for the environment, it may upon closer examination have reasons to recommend it. As a case in point, to produce a cotton t-shirt may consume less energy than to produce one made of polyester, but if the consumer uses a clothes dryer, the slower-drying cotton garment might ultimately use more energy over its product life cycle than one made of polyester. To further cloud the issue, marketing aimed at people interested in making sustainable choices may be confusing or misleading (sometimes called "greenwashing"), causing even those with the best intentions to make relatively "bad" choices for "good" reasons. The answer to the question, "Which choice is better for the environment?" is often complicated, but the discussion is worth having.

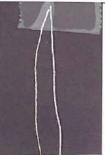
May you go forth with your eyes wide open, ready to creatively and inventively help put us, both as producers and consumers, on a path to sustainable textile production and consumption. Let us seek the truth about what we can do to keep our planet healthy, yet make rational decisions about how to meet people's current needs within that context. One way to achieve this balance is to better understand the impact of our choices. We hope the **Eco+ Edition** of **The Textile Kit** will aid in advancing that understanding, as we answer some of these important questions and raise new ones.



#N1 - N15 (Narrow Samples): Fibers, Yarns, and Narrow Fabrics



Sample N1 / cotton fiber 100% cotton / fiber stage (natural color) / natural cellulose fibers, conventional cotton / fiber type impacts textile performance / seed hair fiber from cotton plant / cotton is the most widely used apparel fiber



Sample N2 cotton yarn 100% cotton / yarn stage (natural colcir) / 20/2 yarn / simple, 2-pl yarn / yarn type impacts texille performance / two plies of 20-denier yarn / two strands twisted together



for lextile testing / courtesy of SDL Atlas, www.sdlatlas.com



Sample N4 / care label (100% cotton) possible care label for product made of 100% cotton / ONE common care label that MIGHT be used on a product with this fiber content



Sample N5 / care label (65% poly/35% cotton) possible care label for product made of 65% polyester/35% cotton / ONE common care label that MIGHT be used on a product with this fiber content



Sample N6 / care label (100% wool) possible care label for product made of 100% wool / ONE common care label that MIGHT be used on a product with this fiber content



Sample I color grown
organic c nn yarn
100% natu colored organic
cotton / natu collulose
fibers, organi y grown in
brown color /
slub yarn / col
color / grew in
revival of anc
strains), elim
for dyeing /
/ thick and
no dyeing



/ certified organic Sample cotton 100% kucho brand certified and organic Pima fair t natural cellulose cotto fibe BOTS (Global Organic tandards) certified organically grown, long staple cotton / soft twist yarn / natural botanical dyed / Pima breed of cotton produces extra-long staple (ELS) fibers / fair trade cotton / made from soft roving / dyed by hand



Si ple N9 / color grown ce field organic cotton yarn 97 Pakucho brand certified orga is color grown cotton/3% fine with copper / natural cellulos fibers, GOTS certified nanically grown / mineral/cellosic fiber blend / antimicrobial / grew in this color / fair trade cotton / metal avoids static buildup / antimicrobial due to copper



Sample N10 cotton yarn 75% recvo otton/25% ed natural acrylic I re cellulose fibers from textile waste originating in the apparel and textile industry and blended with acrylic / simple, 8-ply yarn / 2nd Time Cotton brand yarn contributes "to the conservation and global re-utilization of products" made in the U.S.A. / eight strands as one



Sample N11 / Egyptian cotton yarm
100% Egypti in cotton / natural cellulose fibers, long staple cotton / combed yarn / 10/3 yarn / Egyptian Giza breed of cotton produces super extralong staple (ELS) fibers / very smooth / three plies of 10-denier yarn



Sample N12 / flax fiber 100% flax (linen) / natural cellulose fibers, super fine flax / bast fiber from stem of flax plant / flax (linen) is an ancient textile fiber



Sample N1 / Ilinen yarn 100% flax (nen) / natural cellulose fibers / simple, 4-ply yam / court sy of Louet North America www.louet.com / four strands as che



Sampl N14 / hemp yarn 100% homp / natural cellulose fibers / ord / bast fiber from stem of imp plant / ancient textile fib / similar to flax / legal to see in U.S.A. and as of 2018 also hay be legal to grow base on each state's laws / each oly contains

multiple p

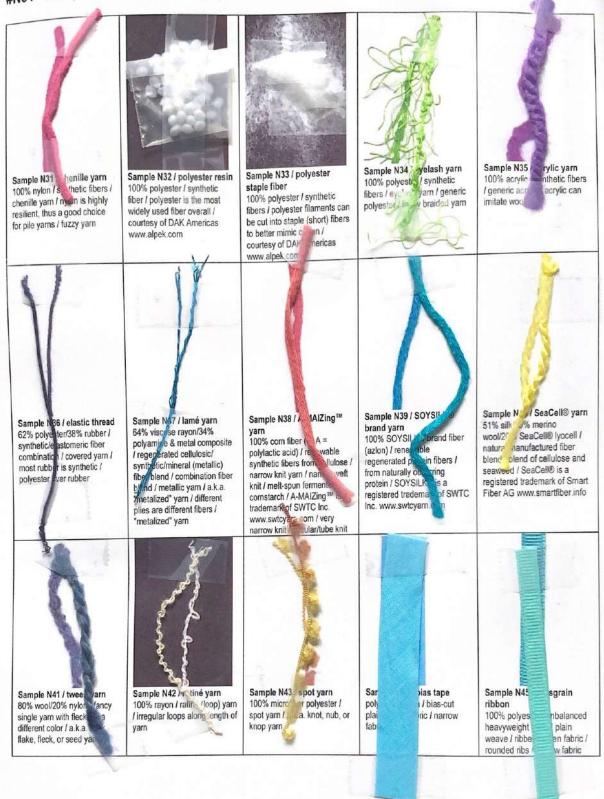


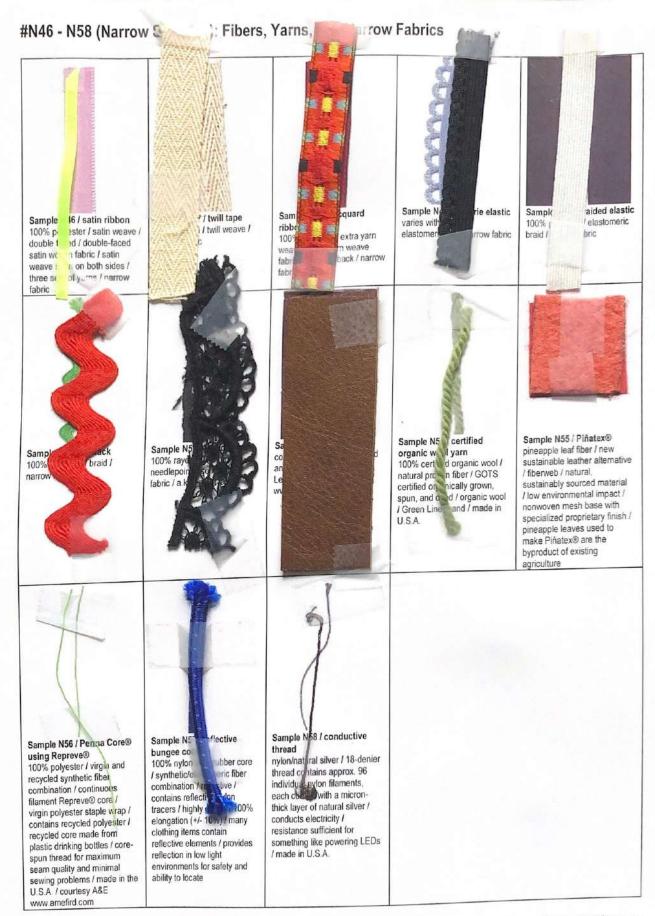
Sample N15 / wool fiber 100% wool / natural protein fibers / wool grown in color / from Corriedale breed of sheep / requires no dyeing

#N16 - N30 (Narrow Samples): Fibers, Yarns, and Narrow Fabrics



#N31 - N45 (Narrow Samples): Fibers, Yarns, and Narrow Fabrics





Sample #

Sample Name unbleached mustin

Fiber Content 100% cotton

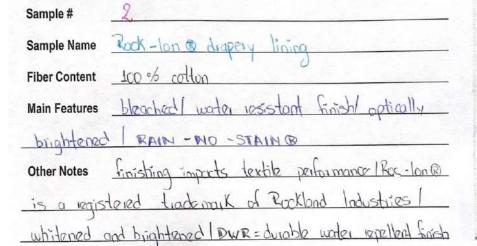
Main Features woven fabric (natural color) / arrival young!

balanced midweight plain weavel unfinished fabric

Other Notes behication type impads textile performance.

somewhat smooth mustin typically has 150 or lower thread

and gray gods a.K.a. gierge gods



Sample # 3
Sample Name 9/0200 chintz
Fiber Content 100% cotton

Main Features

Other Notes stylized flowered pattern | printing and finishing impact textile performance | glazed chartz is crisp and lustraus / pigment ink used enhanced lustra







Sample #	Ц	
Sample Name	prinpoint extend	July 1
Fiber Content	100% Pina cotton	1
Main Features	natural cellulose fibers, long staple cotton	
ring-spin	yains basket weave	The same
Other Notes	Pinn biged of cotton produce extra-borg	618
staph LEIS	I fiberstring spunk a.k.a. conventional spun yours!	
higher thier	ad count that regular oxford cloth	
J		
Sample #	5	
Sample Name	certified organic cotton duck	
Fiber Content	Jan% contified again cotton	
Main Features	natural collubre fibers, certified	
	grown basket weave	
Other Notes	organizations with varying standards "correfy"	
cotton	orbers as organically grown I coarse	
heavy		
Sample #	6	
Sample Name	handkeidief linen	Vernongalor
Fiber Content	100 % flax (linen)	Name of the last
Main Features	notival cellulose fibers.	NAME AND DESCRIPTION OF THE PERSON OF THE PE
		Charles and the Control of the Contr
Other Notes	flax (linen) is a prestige fiber	The same of the sa
		Madhina
		2



76 Sample # gida doth Sample Name 100% cotton **Fiber Content** Main Features basket weave Other Notes open weave Sample # Sample Name Fiber Content 100 % cotton Main Features most commonly 4x4 Other Notes Sample # Sample Name Fiber Content 100% silk Main Features even - sided twill lightweight, filament yours Other Notes







	42	
Sample #	79	
Sample Name	<u>Serge</u>	
	80% ocrylic/20% worl	
Main Features	intimate Riber blendl even-sided twill	
	urion dyed	
Other Notes	fibers blended before spinning yours / heavyweight	1
7.75 OSY	or ounces per square problem prinstanian dyeing	
	ong color when dyeing a fiber blend	
Sample #	30	
Sample Name	outing flamed	
Fiber Content	100% rotton	
Main Features	10070 (61101)	
Main Features		
Other Notes	broken twill	
Sample #	81	
Sample Name	pinstipe suiting	
Fiber Content	. 1 ()	
Main Features		
011	oray voins are soon yours I heathered a k.a.	
Other Notes		
mottled	12/1 twill	

Sample #

Sample Name

t-shirt Knit (striped jersey)

Fiber Content

100% cotton

Main Features single west Knit, plain jersey

Other Notes

small gauge / yain was dyed before

Sample #

122

Sample Name

juvenil Knit

Fiber Content

100% cotton OR cotton spanday

Main Features

single woft knit, printed jersey

target market print

Other Notes

small gauge / pattern was printed

Knitting/ intended for fabies of

children

Sample #

123

Sample Name

sweater Knit

Fiber Content

rances with sample

Main Features

Other Notes

large loops



The Textile Kit™ 124 Sample # Sample Name **Fiber Content** Main Features ITY = intabox twist your ITY gives Other Notes 125 Sample # onion skin Sample Name 96% polyester 14% Lycia & spordex **Fiber Content** Main Features is highest lappe twist your Other Notes lively dry hand Sample # 196 Sample 'acquaid jeisey (tock skitch) Sample Sample Name with sample Fiber Cor **Fiber Content** Main Feat Main Features single Other Notes Stitch Other Notes

Sample # 151

Sample Name __cuttle dot

Fiber Content 1000 o microfiber polyester

Main Features synthetic microfibers / troot warp

pile knot I embossed

Other Notes microfibers can be as fine as for

sliver pilel 400 GEM or grams per square

meter surface design added

Sample Name flot box

Fiber Content 1000 lo polyestes

Main Features vaschel warp Knit

Other Notes most "lace" is knit

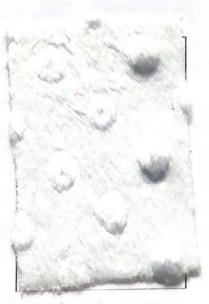
Sample # 153

Sample Name 10150d laco

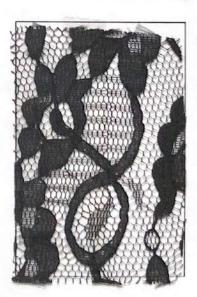
Fiber Content 1000 polyester

Main Features rasche wasp Knit

Other Notes raised lace a. K.g. re-embroidered









Sample #

154

Sample Name

stretch bee

Fiber Content

97% polyester 3% spandex

Main Features

josehal warp knit

Other Notes

stietch die to spander

Sample #

155

Sample Name

not

Fiber Content

1000/o polyostes

Main Features

loschel war knit

Other Notes

a finer, softer version is talle

Sample #

156

Sample Name

point d'espoit

Fiber Content

10006 mylon

Main Features

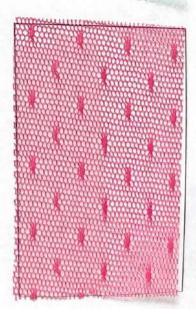
raschel warp knit.

Other Notes

"spot" Knit not









Sample #

Sample Name

Inco mesh

Fiber Content

Loo lo nylon

Main Features

Synthetic fibers | raschel warp

Knit

Other Notes

nylon his great stretch and recovery

a.k.g. hex meth or hex Knit

Sample # 158

Sample Name Fishned mesh

Fiber Content 100% nylon

Main Features 1050hel warp Knit

Other Notes open mesh

Sample # 159

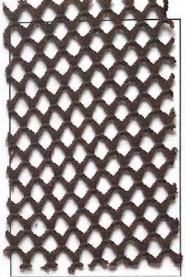
Sample Name Athletic mesh

Fiber Content 100% nylon

Main Features raschel warp Knit

Other Notes open mesh







The Tex	tile Kit [™]		
Sample #	208		
Sample Name	Supercharged Nove Performance Denim		1
Fiber Content	technology 1 100 spandex		
Main Features	warp-faced twill solution deed delivers a powerful		
dense black	color with excellent colorfastness and sustainability barefris		
Other Notes	solid color denim 8.5 OSY solution dyping		
avoids typi	cal fading seen in black garments / Courtes y		
of Lenzing	Fibers w. w.w. lanzing com	100	-
		,	1
Sample #			
Sample Name			
Fiber Content			
Main Features			
Other Notes			
Sample #			
Sample Name			
Fiber Content			
Main Features			
		See Marie	
Other Notes			

me rex	tile Kit™	V	
Sample #	208		
Sample Name	Supercharged Nove Performance Domin 50% polyester 146% TENCELTH Modal with Eco Colul		100
Fiber Content	technology 1 40 lo spandex		
Main Features	warp-faced twill solution dyed delivers a powerful		
dense black	color with excellent colorfostress and sustainability barefr	ls,	r edg
Other Notes	solid color denim 8.5 OSY/ solution dyeing		
avoids typic	ral fording seen in black garments / Courtesy		
	Fibers w. w. w. lenzing com		
J		Jan .	A
Sample #		West a	
Sample Name			
Fiber Content			
Main Features	ACCORD THE MALL OF ALL SHOW IN		
Other Notes			
1000			
Sample #			
Sample Name			
iber Content			
Main Features			
Other Notes			
TO BE			

4:10 Kit