

# Alpha

100% Staple spun polyester 180-120-80-50-20



## 100% Staple spun polyester 180-120-80-50-20

Liconfe ALPHA is a lubricated super high tenacity 100% staple spun polyester thread which has a uniform construction and is resistant to sunlight and chemical degradation. It is an exceptional thread of its type with dependable sewing performance in high-speed and critical sewing operations.

## **Main Uses**

- Shirts
- Blouses
- Underwear
- Childrenswear
- Denim / Jeans
- Sweaters
- Workwear
- Dresses

## **Features & Benefits**

- Wide range of colours at an affordable price
- Specially lubricated to deliver excellent sewing performance
- 100% staple spun polyester, resistant to sunlight and chemical degradation
- Certified to Öeko-Tex Standard 100, class 1, the most strin gent class covering babywear

### Physical and chemical properties of Alpha Thermal Properties

Melts at 250 - 260°C, softens at 220 - 240°C Shrinkage less than 1% @ 150°C

## **Chemical Properties**









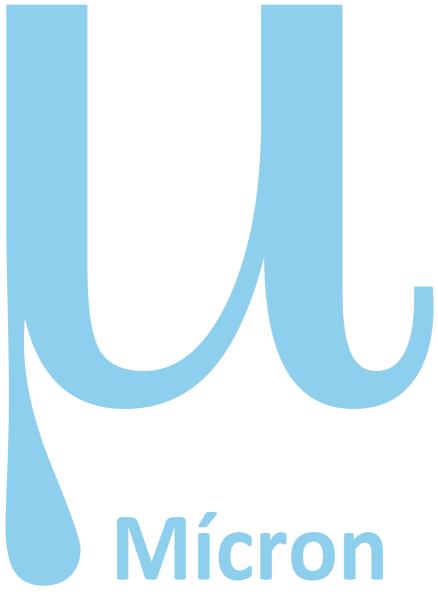
Mineral acids	Resistant to most mineral acids.
Alkalis	Essentially unaffected by weak alkalis, but less resistant to stronger alkalis, especially at higher temperatures
Organic solvents	Generally unaffected, but soluble in some phenolic compounds.
Bleaching	Unaffected
Insects / microorganisms (mildew, rot)	Unaffected
Laundering / dry cleaning	Unaffected
Moisture regain	0.4%

#### **Liconfe Alpha fastness properties**

Washing at 60°C	(ISO 105 C10:2006 C(3))	Grade 4
Water Fastness	(ISO 105 E01:2010)	Grade 4
Rub Fastness	(ISO 105 X12:2001)	Grade 4
Hypochlorite Fastness	(ISO 105 N01:1993)	Grade 4
Dry Cleaning Fastness	(ISO 105 D01:2010)	Grade 4
Perspiration Fastness	(ISO 105 E04:2009)	Grade 4
Artificial Light Fastness	(ISO 105 B02:1994)	Grade 4

Ticket	20	50	80	120	180
Strength (cN)	3500	2250	1500	1100	680
TWIST (S) T/M	583	795	709	898	1065
TWIST (Z) T/M	524	673	650	827	970
Stretching CV %	15.0	14.5	14.0	12.5	13.0
Needle Thickness recommended - Métric	120-140	100-120	90-110	75-90	65-75





100% Bulked textured polyester 300-150-110

#### 100% Bulked textured polyester 150-300

Liconfe MÍCRON is a continuous twisted filament textured polyester thread. The textured filaments give the thread a soft feel and make it ideal for use on overlocking and cover seaming machine loopers to provide softness and comfort especially in "next to the skin" seams. It gives high extensibility and seam strength resulting in good seam security and low shrinkage characteristics, which ensures no seam distortion after washing.

#### **Main Uses**

- Underwear
- Swimwear
- Leisurewear
- Knitwear
- Babywear
- · Household textiles

#### **Features & Benefits**

- Liconfe Mícron provides exceptional seam cover and softness resulting in neat, comfortable seams
- High extensibility and seam strength result in good seam security
- The low shrinkage characteristic ensures no seam distortion after washing
- Liconfe MÍCRON offers a high degree of colour fastness providing dependable performance even after the most demanding of wash processes
- Certified to Öeko-Tex Standard 100, class 1, the most stringent class covering babywear

### Physical and chemical properties of Micron

### **Thermal Properties**

Melts at 250 - 260°C, Softens at 220 - 240°C

#### **Chemical Properties**

Mineral acids	Resistant to most mineral acids.
Alkalis	Essentially unaffected by weak alkalis, but less resistant to stronger alkalis, especially at higher temperatures
Organic solvents	Generally unaffected, but soluble in some phenolic compounds.
Bleaching	Unaffected
Insects / microorganisms (mildew, rot)	Unaffected
Laundering / dry cleaning	Unaffected
Moisture regain	0.4%

### Liconfe Omega/Mícron fastness properties

Washing at 60°C	(ISO 105 C10:2006 C(3))	Grade 4
Water Fastness	(ISO 105 E01:2010)	Grade 4
Rub Fastness	(ISO 105 X12:2001)	Grade 4
Hypochlorite Fastness	(ISO 105 N01:1993)	Grade 4
Dry Cleaning Fastness	(ISO 105 D01:2010)	Grade 4
Perspiration Fastness	(ISO 105 E04:2009)	Grade 4
Artificial Light Fastness	(ISO 105 B02:1994)	Grade 4

Ticket	110	150	300
Strength (cN)	460	610	1250
TWIST T/M	120	120	120
Stretching %	22-30	22-30	22-30
Needle Thickness recommended - Singer	8-12	10-14	14-18













LICONFE®

# Sigma

100% Polyester corespun 150-120-100-75-50-36-25



#### 100% Polyester corespun 150-120-100-75-50-36-25

Liconfe SIGMA is a polyester-wrapped thread with a polyester filament core. This combination gives maximum tenacity in the threads as both the fibres and the filament contribute to provide high tensile strength. Liconfe Sigma is ideal where fineness and high seam strength are required and is the best solu-

## tion for puckering.

## **Main Uses**

- Fashion apparel
- Blouses and shirts
- Jackets and dress slacks
- Lingerie and swimsuits
- Uniforms and workwear
- Jeanswear
- Various leather articles

#### **Features & Benefits**

• Liconfe Sigma is a high-tech corespun thread that combines a high tenacity polyester filament core with a polyester fibre wrap to make a versatile and productive thread. Liconfe Sigma is ideal for delicate garments as well as jeans and workwear.

• Specially lubricated to deliver outstanding sewing performance in the most demanding applications.

• O The high strength polyester filament core allows the use of finer thread sizes, giving better seam appearance without compromising seam strength.

- Excellent abrasion resistance makes liconfe Sigma ideal for jeans and workwear
- Certified to Öeko-Tex Standard 100, class 1, the most stringent class covering babywear

#### Physical and chemical properties of Sigma

#### **Thermal Properties**

Melts 250 - 260°C, softens a 220 - 240°C Lower shrinkage 1% @ 150°C

#### **Chemical Properties**

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Mineral acids	Resistant to most mineral acids.
Alkalis	Essentially unaffected by weak alkalis, but less resistant to stronger alkalis,
	especially at higher temperatures
Organic solvents	Generally unaffected, but soluble in some phenolic compounds.
Bleaching	Unaffected
Insects / microorganisms (mildew, rot)	Unaffected
Laundering / dry cleaning	Unaffected
Moisture regain	0.4%

#### Liconfe Sigma fastness properties

Washing at 60°C	(ISO 105 C10:2006 C(3))	Grade 4
Water Fastness	(ISO 105 E01:2010)	Grade 4
Rub Fastness	(ISO 105 X12:2001)	Grade 4
Hypochlorite Fastness	(ISO 105 N01:1993)	Grade 4
Dry Cleaning Fastness	(ISO 105 D01:2010)	Grade 4
Perspiration Fastness	(ISO 105 E04:2009)	Grade 4
Artificial Light Fastness	(ISO 105 B02:1994)	Grade 4

Ticket	25	36	50	75	100	120	150
Strength (cN)	5440	3626	3180	2000	1495	1180	925
Elongation %	20.0	19.5	19.0	18.2	17	18.0	16.5
TWIST S	590	590	750	750	910	1020	1150
TWIST Z	450	540	595	725	850	959	1060
Core Filament %	79	79	68	68	68	64	56
Cover Fiber %	21	21	32	32	32	36	44







## Kappa

Polyester cotton corespun 120-100-75-60-50-36-25



## Polyester cotton corespun 120-75-60-50-36-25

Liconfe KAPPA is a top quality corespun thread that combines a high tenacity polyester filament core with a natural cotton cover. The filament core offers excellent strength and durability, while the long staple cotton wrap ensures excellent sewing performance and protects the core from needle heat.

### **Main Uses**

- Fine cotton, denim shirts and suits
- Fine fabrics and premium lingerie
- Classic jeans and outdoor wear
- Leather goods, towels and home furnishings

## **Features & Benefits**

- Liconfe KAPPA is a high-tech corespun thread that combines the tenacity and strength of a polyester filament core with a cotton wrap, delivering excellent sewing performance in the most demanding applications.
- Special lubricant ensures smooth, trouble-free sewing
- Cotton wrap protects the polyester core from needle heat and high ironing temperatures.
- Strong polyester filament core allows the use of finer thread sizes improving seam appearance without compromising seam strength
- Extensive colour range.
- Excellent wash-down characteristics make Liconfe kappa ideal for jeans
- Outstanding abrasion resistance for demanding jeans and workwear applications.
- Certified to Öeko-Tex Standard 100, class 1, the most stringent class covering babywear

## Physical and chemical properties of Kappa

### **Thermal Properties**

Polyester melts at 250 - 260°C, softens at 220 - 240°C Cotton discolours after prolonged exposure to high temperatures Thread shrinkage less than 1% @ 150°C



## **Chemical Properties**

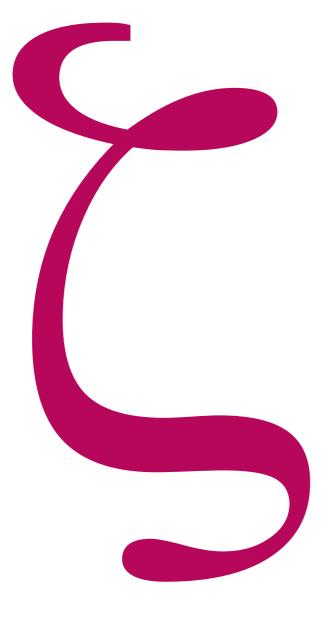
chemical roperties					
Mineral acids		Polyester: is resistant to most mineral acids			
		Cotton: disintegrates in hot dilute and cold concentrated acids			
Alkalis	Polyester: essentially unaffected by	Polyester: essentially unaffected by weak alkalis, but less resistant to			
	stronger alkalis, especially at higher temperatures				
	Cotton: swells in caustic, no appreci	able strength loss			
Organic solvents	Polyester: generally unaffected, but	soluble in some phenolic compounds			
	Cotton: degraded by some solvents				
Bleaching	Cotton: unaffected Algodão: bleac	ned by hypochlorite and peroxides			
Insects / microorganisms (mildew, rot)	Cotton: unaffected Algodão: degrad	Cotton: unaffected Algodão: degrades but can be treated with special finishes			
Laundering / dry cleaning	About :8%	About :8%			
Moisture regain	Polyester: 0,4%, Cotton: 8%	Polyester: 0,4%, Cotton: 8%			
Liconfe Kappa fastness propertie	25				
Washing at 60°C	(ISO 105 C10 C)	Grade 4			
Water Fastness	(ISO 105 E01)	Grade 4			
Rub Fastness	(ISO 105 X12)	Grade 4			
Hypochlorite Fastness	(ISO 105 D01)	(ISO 105 D01) Grade 4			
Dry Cleaning Fastness	(ISO 105 D01)	(ISO 105 D01) Grade 4			
Perspiration Fastness	(ISO 105 E04)	(ISO 105 E04) Grade 4			
Artificial Light Fastness	(ISO 105 B02)	Grade 4			
Product Guidolinos					

Ticket	25	36	50	60	75	100	120
Strength (cN)	5560	3660	2900	2565	1920	1410	1120
Elongation %	21	20.5	19.5	19.5	19	18.5	16.8
TWIST (S)	590	590	750	820	835	910	1070
TWIST (Z)	460	570	630	780	750	895	1050
Core Filament %	79	79	68	68	68	68	64
Cover Fiber %	21	21	32	32	32	32	36









## Zeta

High tenacity polyester 180-120-100-80-60-40-20-10



### High tenacity polyester 180-120-100-80-60-40-20-10

Liconfe ZETA is a lubricated polyester thread made from pre-stabilised high tenacity continuous filament polyester. Liconfe Zeta is an excellent sewing thread for all types of leather, it offers good abrasion resistance. The soft finish with superior low friction lubrication reduces the effects of needle heat and abrasion. Liconfe Zeta with its higher breaking strength and optimum stretch characteristics produces attractive, fine seams on leather footwear and leather goods.

#### **Main Uses**

- Industrial filters
- · Seat belts, air bags
- Soft luggage
- Leather footwear
- Sporting goods
- Geotextiles and technical textiles
- Cargo slings, fasteners
- Automotive interiors
- Leather goods
- Multineedle quilting and mattresses

#### **Features & Benefits**

• Liconfe Zeta is a high tenacity polyester thread. The higher strength to fineness ratio makes very fine seams possible in the footwear

- Liconfe Zeta is treated with a specially formulated lubricant that offers excellent frictional characteristics during high speed sewing
- Controlled stretch characteristics yield excellent sewability with tight, firm stitches on multiple leather surfaces
- Liconfe Zeta exhibits excellent loop formation, consistent stitch formation and neat seam

#### Physical and chemical properties of Zeta Thermal Properties

Melts at 260°C, softens at 220 - 240°C Shrinkage less than 1% @ 150°C

#### **Chemical Properties**

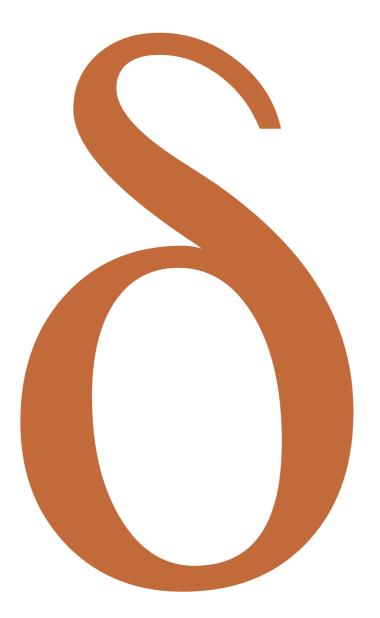
Mineral acids	Resistant to most mineral acids.
Alkalis	Essentially unaffected by weak alkalis, but less resistant to stronger
	alkalis, especially at higher temperatures
Organic solvents	Generally unaffected, but soluble in some phenolic compounds.
Bleaching	Unaffected
Insects / microorganisms (mildew, rot)	Unaffected
Laundering / dry cleaning	Unaffected
Moisture regain	0.4%

#### Liconfe Zeta fastness properties

Washing at 60°C	(ISO 105 C10:2006 C(3))	Grade 4
Water Fastness	(ISO 105 E01:2010)	Grade 4
Rub Fastness	(ISO 105 X12:2001)	Grade 4
Hypochlorite Fastness	(ISO 105 N01:1993)	Grade 4
Dry Cleaning Fastness	(ISO 105 D01:2010)	Grade 4
Perspiration Fastness	(ISO 105 E04:2009)	Grade 4
Artificial Light Fastness	(ISO 105 B02:1994)	Grade 4

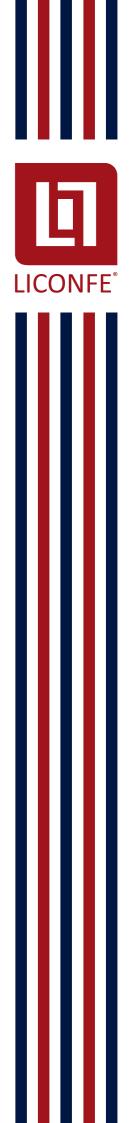
Ticket	Twist Z	Tenacity	Elongation	Hot Shrinkage	
	(T/m)	(g/d)	%	(%) 177°C 10	
180	700	≥7.2	16±3	≤6.5	
120	520	≥7.2	16±3	≤6.5	
100	490	≥7.2	16±3	≤6.5	
80	480	≥7.2	16±3	≤6.5	
60	500	≥7.2	16±3	≤6.5	
40	450	≥7.2	16±3	≤6.5	
20	325	≥7.2	16±3	≤6.5	
10	270	≥7.2	16±3	≤6.5	





## Delta

100% Cotton 60-50-40-35-30-20-12





### 100% Cotton 60-50-40-35-30-20-12

Liconfe DELTA is a 100% cotton thread specifically designed for sewing cotton garment that are to be post dyed.

## For untreated 100% cotton fabrics

Liconfe DELTA soft cotton thread is produced from high quality, long staple cotton and is the ideal choice for sewing untreated 100% cotton garments that are to be post dyed.

## For mercerised 100% cotton fabrics

Liconfe DELTA mercerised cotton thread is produced from high quality, long staple cotton specially treated under tension to provide greater lustre and higher strength.

The mercerizing process also gives the thread a high affinity to the dyestuffs used in post dyeing, making it an ideal choice for sewing mercerised 100% cotton garments.

## **Features & Benefits**

- Liconfe DELTA is available in soft and mercerised finishes to match the fabric finish
- Mercerised to give better affinity to dyestuffs used in post dye applications
- Special lubrication providing low friction sewing
- High lustre and good strength
- Excellent dye affinity for garment overdyeing

## Physical and chemical properties of Delta

#### **Thermal Properties**

Burns readily. Decomposes at 400°C Prolonged exposure to sunlight causes yellowing and strenght loss Good durability. Shrinkage at 100°C typically 1% or less Sensitive to temperatures greater than 350°C



#### **Chemical Properties**

enemiearroperties			
Mineral acids	Sensitive to mineral acids especially if halogenated		
	Swells in caustic mercerising but is not damaged		
Alkalis	Generally unaffected by most organic solvents. Generally unaffected by sodium		
	hypochlorite, sodium perborate and peroxide bleaches under controlled conditions		
Organic solvents	There is a probability of strength loss if contaminated with iron during bleaching		
Insects / microorganisms (mildew, rot)	Resistant to ageing and moth attacks but sensitive to mildew growth		
Regain	Approximately 8%		
Finishing	The lubricants applied are designed to give consistent performance at high sewing speeds and a minimal variability between shades Good resistance to chlorine		
Abrasion resistance	Low		

### Liconfe Delta fastness properties

Washing at 60°C	(ISO 105 C10 C)	Grade 4
Water Fastness	(ISO 105 E01)	Grade 4
Rub Fastness	(ISO 105 X12)	Grade 4
Hypochlorite Fastness	(ISO 105 D01)	Grade 4
Perspiration Fastness	(ISO 105 D04)	Grade 4
Artificial Light Fastness	(ISO 105 B02)	Grade 4

Ticket	12	20	30	35	40	50	60
Strength (cN)	3100	1861	910	1450	1150	980	720
TWIST (S) T/M	535	695	780	730	885	935	930
TWIST (Z) T/M	475	605	698	651	803	848	877
Elongation %	9.1	8.1	5.3	6.5	6.3	6.6	5.8
Needle Thickness Recommended - Singer	21-23	18-20	14-18	18-19	14-18	12-14	11-12





Desejo de ser o vosso "Fio-de-Ariadne", bem vindo ao mundo maravilhoso das cores *LICONFE* Deseo de ser el "Hilo de Ariadna" vuestro, bienvenido al maravilloso mundo de las colores *LICONI* Desire to be your "Ariadne's thread", welcome to the wonderful world of *LICONFE'S* colors



linhas para coser e bordar hilos de coser y bordar sewing and embroidery threads

"A escolha de cada um começa com um sonho, porque sonhando tudo é possível" "La elección de cada uno comienza con un sueño, porque soñando todo es posible" "The choice of each one starts with a dream, and dreamimg turns everything into possible" Nicolas G. Hayek

#### os nossos produtos nuestros produtos

#### our products



Liconfe ALPHA is a lubricated super high tenacity 100% staple spun polyester thread which has a uniform construction and is resistant to sunlight and chemical degradation. It is an exceptio-Alpha nal thread of its type with dependable sewing performance in high-speed and critical sewing operations.

#### Features & Benefits Extensive range of colours at an affordable price

chemical degradation

performance

- **Main Uses** Shirts
- Blouses Underwear
- Childrenswear
- Denim / Jeans
- Sweaters
- Workwear
- Dresses

#### 100% Cotton mercerized 60-50-40-35-30-20-12

Liconfe DELTA is a 100% cotton thread specifically designed for sewing cotton garments that are to be post dyed. Cotton thread is produced from high quality, long staple cotton and is the ideal choice for sewing untreated 100% cotton garments that are to be post dyed.

**Features & Benefits** 

stringent class covering babywear

#### Main Uses

Delta

 Post dved light to medium apparel

· Available in soft and mercerised finishes to match the fabric finish Mercerised to give better affinity to dyestuffs used in

· Specially lubricated to deliver excellent sewing

• 100% staple spun polyester, resistant to sunlight and

Certified to Öko-Tex Standard 100, class 1, the most

post dye applications

· Low friction sewing lubricant helps provide good sewing performance

- · High lustre and good strength · Excellent dye affinity for garment overdyeing
- 100% Lyocell 35-30-20-12

Liconfe GAMMA is 100% Lyocell staple spun thread twisted and finished for optimum sewing performance. Ideal for minimizing seam failures during lyocell garment overdyeing. Lyocell rayon is a form consisting of regenerated cellulose made from dissolving Gamma pulp fibers (wood pulp bleached) using dry wet spinning jet.

Main Uses

#### **Features & Benefits** Excellent sewability - Good seam strength

 Casual Bottoms Casual Pants

Child clothes

Overdveina

- Good choice for overdyeing on lyocell garments Casual Shirts e tops hread particularly strong, which dyes cotton in a Tops, Dresses
  - similar manner
    - · Ideal extension characteristics suitable for stretch fabrics
      - · Stands up well to heavy laundry processing

· Smaller needles can be used, advantageous when sewing fine knit garments

#### 100% Textured polyester 150-300

Liconfe OMEGA is a high elasticity textured polyester sewing thread which has been specifically designed for use in the loopers of chainstitch derived stitch types (chainstitch, coverstitch and overlock), on machines used to produce high stretch knitted outerwear and underwear garments.

#### **Main Uses Features & Benefits**

- Sportswear High bulking characteristics providing excellent seam covering
- properties and seam softness Swimwear · Low friction sewing lubricant helps provide good sewing
- Leisurewear
- Underwear Lingerie

Omega

• The high elasticity value allows the seams to extend and contract without undue distortion

· Low shrinkage property ensures no seam distortion after washing High degree of colour fastness providing dependable performance even after the most demanding domestic washing cycles

#### 100% Bulked textured polyester 150-300

security

performance

Liconfe MÍCRON is a continuous twisted filament textured polyester thread. The textured filaments give the thread a soft feel and make it ideal for use on overlocking and cover seaming machine loopers to provide softness and comfort especially in "next to the skin" seams. It gives high extensibility and seam strength resulting in good seam Mícron security and low shrinkage characteristics, which ensures no seam distortion after washing.

**Features & Benefits** 

- Underwear
- Swimwear
- Leisurewear
- Knitwear
- Babywear
- Household textiles
- The low shrinkage characteristic ensures no seam distortion after washing Liconfe MICRON offers a high degree of colour fastness providing dependable performance even after the most demanding of wash processes
  - Certified to Öko-Tex Standard 100, class 1, the most stringent class covering babywear

Liconfe Mícron provides exceptional seam cover and softness resulting in neat, comfortable seams

High extensibility and seam strength result in good seam



#### 100% Polyester corespun 150-120-100-75-50-36-25

Liconfe SIGMA is a polyester-wrapped thread with a polyester filament core. This combination gives maximum tenacity in the threads as both the Liconde Sigma is ideal where fineness and high seam strength are required and is the best solution for puckering.

#### **Main Uses**

 Fashion apparel 
 Blouses and shirts 
 Jackets and dress slacks 
 Lingerie and swimsuits • Uniforms and workwear • Jeanswear • Various leather articles

#### **Features & Benefits**

 Liconfe Sigma is a high-tech corespun thread that combines a high tenacity
polyester filament core with a polyester fibre wrap to make a versatile and productive
thread. Liconfe Sigma is ideal for delicate garments as well as jeans and workwear. Specially lubricated to deliver outstanding sewing performance in the most demanding applications.

• O The high strength polyester filament core allows the use of finer thread sizes, giving better seam appearance without compromising seam strength.

- Excellent abrasion resistance makes liconfe Sigma ideal for jeans and workwear
- Certified to Öko-Tex Standard 100, class 1, the most stringent class covering babywear



#### Polyester cotton corespun 120-75-60-50-36-25

Liconfe KAPPA is a top quality corespun thread that combines a high tenacity polyester filament core with a natural cotton cover. The filament core offers excellent strength and durability, while the long staple cotton wrap ensures excellent sewing performance and protects the core from needle heat.

#### Main Uses

 $\bullet$  Fine cotton, denim shirts and suits  $\bullet$  Fine fabrics and premium lingerie  $\bullet$  Leather goods, towels and home furnishings  $\bullet$  Classic jeans and outdoor wear

#### **Features & Benefits**

· Liconfe KAPPA is a high-tech corespun thread that combines the tenacity and strength of a polyester filament core with a cotton wrap, delivering excellent sewing performance in the most demanding applications.

 Special lubricant ensures smooth, trouble-free sewing
 Cotton wrap protects the polyester core from needle heat and high ironing temperatures. · Forte Strong polyester filament core allows the use of finer thread sizes improving seam appearance without compromising seam strength

- Extensive colour range.
- Excellent wash-down characteristics make Liconfe kappa ideal for jeans
   Outstanding abrasion resistance for demanding jeans and workwear applications.
- Certified to Öko-Tex Standard 100, class 1, the most stringent class cove ring babywear

#### High tenacity polyester 180-120-100-80-60-40-20-10

Liconfe ZETA is a lubricated polyester thread made from pre-stabilised high tenacity continuous filament polyester. Liconfe Zeta is an excellent sewing thread for all types of leather, it offers good abrasion resistance. The soft finish with superior low friction lubrication reduces the effects of needle heat and abrasion. Liconfe Zeta with its higher breaking strength and optimum stretch characteristics produces attractive, fine seams on leather footwear and leather goods.

#### Zeta Main Uses

Industrial filters
 Seat belts, air bags
 Soft luggage
 Leather footwear
 Sporting goods
 Geotextiles and technical textiles
 Cargo slings, fasteners
 Automotive interiors
 Leather goods
 Multineedle quilting and mattresses

#### **Features & Benefits**

· Liconfe Zeta is a high tenacity polyester thread. The higher strength to fineness ratio makes very fine seams possible in the footwear • Liconfe Zeta is treated with a specially formulated lubricant that offers excellent

frictional characteristics during high speed sewing

 Controlled stretch characteristics yield excellent sewability with tight, firm stitches on multiple leather surfaces

 Liconfe Zeta exhibits excellent loop formation, consistent stitch formation and neat seam Certified to Öko-Tex Standard 100, class 1, the most stringent class covering babywear



High tenacity nylon 180-120-100-80-60-40-20-10

Liconfe HEPTA is a lubricated nylon thread made from pre-stablised continuous filament nylon 6.6. Liconfe Hepta is an excellent sewing thread for all types of leather and offers excellent abrasion resistance. It incorporates a soft finish with a superior low friction lubrication which reduces the effects of needle heat and abrasion.

#### Hepta Main Uses

•Leather goods •Shoes uppers •Sporting goods •Seat belts, Air-bags •Cintos de segurança •Industrial filters •Automotive interiors •Multineedle quilting and mattresses • Protective footwear • Geotextiles and technical textiles

#### **Features & Benefits**

Liconfe Hepta is 30% stronger than ordinary nylon thread. The higher strength to fineness ratio makes very fine seams possible in the footwear

Liconfe Hepta is treated with a specially formulated lubricant that offers excellent

frictional characteristics during high speed sewing • Controlled stretch characteristics yield excellent sewability with tight, firm stitches on multiple leather surface

· Liconfe Hepta exhibits excellent loop formation, consistent stitch formation and neat seam appearance

## Nylon monofilament 150-80 Liconfe BETA is a monofilament thread made from polyamide (nylon 6.6). Its strength and narrow diameter permit its usage in a wide range of applications e.g. quilting the waist bands on trousers, sewing of kick tape, sewing home textiles and for multi-purpose sample production. It is also suitable for ladieswear and menswear e.g. for the sewing of cuffs and breast pockets.

#### breast pockets. **Main Uses**

Hem and waistband stitching • Attaching labels etc.

All kinds of serging, seaming and blind-stitch operations

#### **Features & Benefits**

- Excellent strength in relation to its fine sizes
- Transparency for discreet appearance blends into all fabric colours Very good sewing performance and bulk make-up for maximum productivity

Comprehensive range - available in a variety of sizes to suit numerous applications