



THREADGUIDE Automotive









invention became identity. The origin of or the passion and its first days our solutions and pr

The origin of our many achievements is

the passion and our pioneering spirit. Since its first days our brand is known for creative solutions and products that stand out.



The perfect thread

Thread is the oldest connecting technology in the world.

The first thing people did to connect things was to tie them together. They used threads made from natural fibres or leather. For us thread is more than sewing apparel. It is safety, function and aesthetics for any application and material, from silk to polyester to steel.

Bundling of innovative strength

Inventions have always been the backbone of our success.

A keen eye for market requirements, quality and safety standards and the needs of people around the world have led to new solutions. Acquisitions and collaborations have also brought knowledge to the company over time. And last but not least, the people behind the threads. Their enthusiasm and expertise makes the difference.

Today we are a part of Elevate Textiles. A strong alliance of five traditional brands. Together we take textiles to the next level. To ensure our customers are always one step ahead of what's next. To create the environment for first class products and innovation we continuously invest in infrastructure, technology and production facilities.

The benchmark: Our customer's needs

The perfect thread and product quality for any application.

From research and development to production – our know-how and high process standards create excellence. Our production sites are equipped with state-of-the-art technology for winding, dyeing and bonding. All to ensure our customers get the quality and smooth sewing processes they demand.

Our answer to the most demanding requirements in durability is bonding. Uniform bonding, preparation, and winding lead to optimum processing and results-this is particularly important for airbag threads.

Expertise beyond trends

Our know-how comes to the fore when a task goes beyond the norm.

Special requests such as silicone-free, waterrepellent, flame-retardant or UV-resistant sewing threads? No Problem!

Customized developments such as wind turbines, heat protection for tunnel drilling rigs? Always welcome! From apparel to technical textiles, from mobility to high-tech – we are your reliable partner.

Know-how

Broad experience in industries such as automotive (airbags & interiors), apparel, leather goods, outdoor, technical applications, and many more.

Tasks beyond the norm-take advantage of our development team's expertise for any speciality or innovation.

Technology

State-of-the-art winding and bonding technology enables new possibilities like hybrid threads.

The unique Micro Core Technology®-the first core spinning process based on microfilament polyester.

Excellent dyes for the highest demands-one of our absolute core competences.

Universal thread lubrication.

Smart processes

Implementation of self-learning digital processes. Continuous improvement of quality and efficiency. Science-based methods to ensure sustainability.



imagination becomes

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Turning our visions into impressive realities. That is the mission we follow. Our direction is future. Stepping foward into new ideas and technologies is and has ever been the central part of our company's DNA.



Expertise means change

Innovating sewing thread technologies for the demands to come.

Developing and implementing new technologies and applications is integral part of our DNA. And so is improving sustainability across our company. Hundreds of employees in Europe and the world step forward into the future with passion and a pioneering spirit.

Quality at the highest level

We place the highest demands on the quality of the resources used and their processing.

Certified processes form the basis of our quality management system. We comply with strict European regulations and sustainability aspects. A&E Gütermann sewing threads for the automotive industry are manufactured in accordance with IATF 16949:2016 as standard and meet the key requirements for the automotive industry. This means that our sewing threads are harmless to use during processing and in the final application.

These standards are regularly and voluntarily reviewed by independent external certification bodies.

Reliable advice and service

Being reliable also means that we are there to support your needs, and we are at your side with advice.

We have close relationships with our customers not only in Europe, but worldwide. With comprehensive consulting, lean logistics, and fast production, we achieve high delivery reliability and service quality. This is how we make our contribution to a secure supply chain.

We prefer action to excuses

We act responsibly for people, the environment and the economy.

We support the United Nations SDGs. Therefore, A&E Gütermann is committed to excellent safe working conditions, diversity and equality.

Our actions to achieve our ambitious environmental goals: 5% annual reduction in water usage by 2030. Zero waste-to-landfill through 100% recycling and waste reduction. 4,2% year-over-year reduction in scope 1 and 2 emissions. Ongoing development of renewable energy from photovoltaic installations and energy savings through optimisation.

Quality standards

IATF 16949:2016 (Automotive) DIN EN ISO 9001:2015 DIN EN ISO 50001:2018 REACH Compliance OEKO-TEX® Standard 100 GRS Global Recycled Standard

Service

- Reliable business partnership and delivery. Sewing consultance.
- Special developments like individual colour dyes and others.

Responsibility

- A strong commitment to excellent safe working conditions.
- Reduction of waste and emmissions.
- ZDHC water and wastewater management.
- Support of the Paris Agreement und UN SDGs.
- Sustainable products.



Safety as a priority

When you are moving people around the world, you can't afford to make compromises. Precision, accuracy and safety are paramount here, from airbags right through to seatbelts. With sewing threads from A&E Gütermann, you can rely on an experienced partner who understands the day-to-day challenges and requirements of the automotive industry.

Our ambition

We offer unparalleled sewing thread expertise for all requirements and for our customers around the world. You'll find the right sewing thread for every automotive application in our range. That is our commitment—and that's what we measure ourselves by. Should you find that your specific needs are not fully covered by our current range, we look forward to the challenge of meeting your needs, and will do everything we can to provide you with the perfect product for your requirements.

Sewing threads to satisfy the highest requirements

There are numerous of technical components in cars, motorcycles, trains and aircrafts to ensure that we have a pleasant journey and that we reach our destination quickly and, above all, safely. Sewing threads also play a key role in this. After all, airbags, seats, seatbelts, and most interior trims consist of textile backings that are sewn together, not to mention the insulation materials in the engine compartment. The requirements for these seams can be as broad as the variety of applications: from colourfast, water-repellent, UV-resistant and tear and rub resistant, to temperature and chemical resistant.



Elegance meets safety

Anyone who has been working for the automotive industry for years like we have know what matters:

The technical and visual material properties must be in harmony. Textile backing materials are used in a wide range of vehicle areas.

In visible areas like the seats and the interior, these materials are often leather or fabric, while synthetic fibres such as polyester and polyamide are usually found in areas subject to greater stress and safety requirements. Sewing threads from A&E Gütermann are optimally aligned with these different areas and requirements.



The interior is what gives every vehicle its special look.



Stable, comfortable, attractive – that's how the seating area in vehicles should be.



Heavily used - mats in the footwell.



Well transported – so that cargo does not become a risk.



Control and gear knobs are often made by hand.



The freedom of driving-whatever the weather.



Unconditional protection

Strong fibres have always been the key to vehicle safety. Countless technical components in cars, motorcycles, trains and aircrafts ensure that we reach our destination comfortably, quickly and, above all, safely.

What is the role of the sewing threads? An essential one. An emergency stop puts all materials under extreme stress. Sewing threads must remain absolutely stable, especially those used for safety belts and airbags. Like those offered by A&E Gütermann.

Safety belts

Whether it's a lap belt in an aircraft or a threepoint belt in a car, safety belts compensate centrifugal forces. They keep people in their seats in the event of an impact, protecting them from life-threatening injuries. In an emergency they can withstand extreme loads of up to 1.5 tonnes of tensile force. In addition to tear resistance and a certain elasticity, the sewing threads used in safety belts also need to be durable and lightfast.



Airbags

Maximum functionality and safety in accordance with prescribed performance standards are the highest priorities, because airbag threads have to withstand a lot in an emergency. For example, temperatures of several hundred degrees Celsius and forces of many thousands of centinewtons acting on the airbag in the event of a collision, which deploys explosively within 25 milliseconds. Airbag sewing threads must therefore have a high tear resistance, very good elasticity and reliable thermal resistance.

Our impressive products are the result of strictly controlled production processes that comply with the highest standards. The result? Our bondings are perfectly uniform, as are the preparation and winding, because these are decisive factors for optimum processing and obtaining the perfect seam. From a technological point of view, tear resistance and elongation are the most important parameters. Tear resistance is an influential factor for the seam's strength, and the elongation is key to the seam's stretchability.

Airbag threads during manufacture

One of the biggest challenges for airbag sewing threads is the multi-directional stitching of multiple layers of very thick fabric, where the sewing thread must not become untwisted. This is a challenge even when using a twoneedle machine. A&E Gütermann is there to provide expert solutions with its wide range of highly reliable airbag sewing threads.

To manufacture a perfect airbag seam, a bonded sewing thread is usually used as needle thread and an unbonded sewing thread as the looper thread. The needle thread has to be sewn through the thick, multilayered airbag fabric, which creates friction. Due to the multi-directional sewing process and the high stress, the bonding prevents the sewing thread from untwisting. Bonded sewing threads remain sealed and prevent the gripper tip from tearing through them. They also form an ideal pear-shaped loop, which ensures a perfect stitch formation.



Inner bonding

The bonding (red) is located in the core of the sewing thread and is activated through heat.

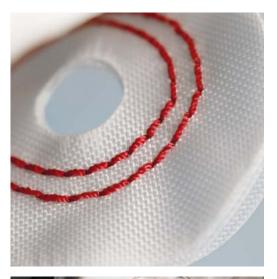


Outer bonding

By immersing the sewing thread in a bonding compound, a special adhesive coating is formed around the sewing thread.

Extended range for airbag seams

Our wide range of products also includes sewing threads that are perfect for construction and assembly seams and ideal for use as rupture seams and basting threads.





Ready to act in the event of an impactairbags provide protection in milliseconds.



INDEX

100 % POLYESTER

CONTINUOUS FILAMENT

CONTINUOUS FILAWIENT	
Calora	12
Calora SPS	13
Filan AS	14
Filan AS S-twisted	14
Filan AS EMB	15
Tera LS	15
CONTINUOUS FILAMENT, OUTERBONDED	
Solbond	16
Sunstop®	16
Anefil Poly AS BT	16
TEXTURED MULTIFILAMENT	
Bauschgarn	17
Texan	17

100 % POLYESTER RECYCLED

CONTINUOUS FILAMENT	
Calora rPET	

100 % POLYAMIDE

12

CONTINUOUS FILAMENT

Zwilon	18
Amifil AS	19
Amifil AS S-twisted	19
CONTINUOUS FILAMENT OUTERBONDED	
Newbond	20
Anefil Nylon AS BT	20
CONTINUOUS FILAMENT INNERBONDED	
Zwibond	21

ARAMIDE / 100 % NOMEX

SPUN	
Gütermann K	22
Anesafe®	22
CONTINUOUS FILAMENT	
Gütermann L	23

SEATING SYSTEMS

Calora	12
Calora rPET	12
Filan AS	14
Filan AS S-twisted	14
Filan AS EMB	15
Anefil Poly AS BT	16
Bauschgarn	17
Texan	17
Zwilon	18
Amifil AS	19
Amifil AS S-twisted	19
Anefil Nylon AS BT	20
Zwibond	21

INTERIOR TRIMS

Calora	12
Calora rPET	12
Filan AS	14
Filan AS S-twisted	14
Solbond	16
Zwilon	18
Amifil AS	19
Amifil AS S-twisted	19

ACCESSORIES

Calora	12
Calora rPET	12
Filan AS	14
Filan AS S-twisted	14
Filan AS EMB	15
Zwilon	18
Amifil AS	19
Amifil AS S-twisted	19

SPECIALS

Calora SPS	13
Tera LS	15
Solbond	16
Sunstop®	16
Gütermann K	22
Anesafe®	22
Gütermann L	23

AIRBAGS

Filan AS	14
Zwilon	18
Amifil AS	19
Newbond	20
Zwibond	21

SAFETY BELTS

Calora SPS

13

Make-up

- Crosswinds
- ☐ Cone
- 🗓 King spool



Mobility – Quality meets functionality





Material:	100 % polyester
Construction:	Continuous filament
Areas of use:	Seating systems, Interior trims, Accessories
Recommended application:	Holding & closing seams, decorative seams, lapped & case seams, quilting seams, embroidery applications, SAB seams
Product benefits:	 + Durable, robust seams + High rub resistance + Very high tear resistance

- + Very even
- + Shiny appearance
- + Ideal for visible/decorative seams

Code
584029
584045
583901
583731
583626
583650
583535
583499
583529
586471
586553
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CALORA rPET

Material:	100 % polyester, recycled
Construction:	Continuous filament
Areas of use:	Seating systems, Interior trims, Accessories
Recommended application:	Holding & closing seams, lapped & case seams, quilting seams, embroidery applications
Product benefits:	 + Durable, robust seams + High rub resistance + Very high tear resistance + Very even

+ Shiny appearance

+ Ideal for visible/decorative seams

No./Tkt.	dtex	Needle	Make-up	Code
40	750(3)	NM 90-110 / 14-18	4,000 m <u> </u>	583732
30	1000(3)	NM 110-130 / 18-21	3,000 m 直	583651
20	1500(3)	NM 120-140 / 19-22	2,000 m 直	583530
15	2000(3)	NM 140-160 / 22-23	1,500 m 直	586472

CALORA SPS

Material:	100 % polyester	
Construction:	Continuous filament	
Areas of use:	Specials, Safety belts	
Recommended application:	Final bartack, Belt closure	
Product benefits: + Particularly high light fastness due to black sp		
	+ Optimal UV resistance	
	 Describle as heart as a set 	

- + Durable, robust seams
- + Very high tear resistance
- + Very even

No./Tkt.	dtex	Needle	Make-up	Code
60	500(3)	NM 90-100 / 14-16	6,000 m <u> </u>	582557
30	1000(3)	NM 110-130 / 18-21	3,000 m 直	587524
20	1500(3)	NM 120-140 / 19-22	2,000 m 直	587460
8	3750(3)	NM 200-250 / 25-27	2,850 m <u> </u>	587444



FILAN AS

Material:	100 % polyester
Construction:	Continuous filament
Areas of use:	Seating systems, Interior trims, Accessories, Airbags
Recommended application:	Holding & closing seams, decorative seams, lapped & case seams, quilting seams, embroidery applications, SAB seams
Product benefits:	+ Durable seams + Good tear resistance
	- Cood tear resistance

- + Smooth surface finish
- + Very even
- + Good rub resistance

No./Tkt.	dtex	Needle	Make-up		Code
120	270(3)	NM 70-80 / 10-12	5,000 m	Ō	560023
80	300(3)	NM 70-90 / 10-14	2,400 m	Ō	560020
			10,000 m	Ō	560022
60	500(3)	NM 90-100 / 14-16	10,000 m	Ō	560019
40	700(3)	NM 90-110 / 14-18	1,200 m	Ō	560014
			4,000 m	Ō	560015
			4,000 m	Ō	560017
			8,000 m	Ō	560018
30	900(3)	NM 110-130 / 18-21	900 m	Ō	560010
			3,000 m	Ō	560011
			6,000 m	Ō	560012
25	1070(3)	NM 130-140 / 21-22	3,000 m	Ō	560009
20	1350(3)	NM 120-140 / 19-22	600 m	Ō	560003
			2,000 m	Ō	560005
			4,000 m	Ō	560027
15	2100(3)	NM 140-160 / 22-23	1,000 m	Ō	560001
11	2800(3)	NM 160-230 / 23-26	1,000 m	Ō	560000



FILAN AS S-TWISTED

Material:	100 % polyester	
Construction:	Continuous filament	
Areas of use:	Seating systems, Interior trims, Accessories	
Recommended application:	Holding & closing seams, decorative seams, lapped & case	
	seams, quilting seams	
Product benefits:	+ Suitable for the left needle on a 2-needle machine	
	+ Durable seams	
	+ Good tear resistance	
	+ Smooth surface finish	
	+ Very even	
	+ Good rub resistance	

No./Tkt.	dtex	Needle	Make-up	Code	
21	1350(3)	NM 120-140 / 19-22	2,000 m <u> </u>	560008	
16	2100(3)	NM 140-160 / 22-23	1,000 m 🗓	560026	



FILAN AS EMB

Material:	100 % polyester
Construction:	Continuous filament
Areas of use:	Seating systems, Accessories
Recommended application:	Embroidery applications
Product benefits:	+ Suitable for embroidery applications
	+ Durable seams
	+ Smooth surface finish

- + Very even
- + Good rub resistance

No./Tkt.	dtex	Needle	Make-up	Code
120	270(2)	NM 70-80 / 10-12	2,400 m <u> </u>	560025





Material:	100 % polyester
Construction:	Continuous filament
Areas of use:	Specials
Recommended application:	Holding & closing seams
Product benefits:	 + Precisely controlled shrinkage behaviour + Precisely defined elongation ensures very good dimensional stability of the sewn tyre cord webs + Suitable for multi-needle machines

No./Tkt.	dtex	Needle	Make-up	Code
20	1500(3)	NM 120-140 / 19-22	2,000 m <u> <u> </u></u>	704016



SOLBOND

Material:	100 % polyester
Construction:	Continuous filament, outerbonded
Areas of use:	Interior trims, Specials
Recommended application:	Closing & decorative seams
Product benefits:	+ Very high colour fastness
	+ Optimal UV resistance

- + Water repellent
- + Very high rub resistance
- + High tear resistance

No./Tkt.	dtex	Needle	Make-up	Code
40	750(3)	NM 90-110 / 14-18	3,000 m <u> </u>	583677
30	1000(3)	NM 110-130 / 18-21	2,500 m 直	583669
20	1500(3)	NM 120-160 / 19-23	1,500 m <u> </u>	583634



SUNSTOP®

Material:	100 % polyester	
Construction:	Continuous filament, outerbonded	
Areas of use:	Specials	
Recommended application:	Closing & decorative seams	
Product benefits:	+ Optimal UV resistance	
	+ Very high colour fastness	
	+ High colour fastness	

+ High tear resistance

No./Tkt.	dtex	Needle	Make-up	Code
30	900(3)	NM 110-130 / 18-21	2,100 yds = 1,920 m 📋	709171
			4,200 yds = 3,840 m 📋	709175
20	•	NM 120-140 / 19-22	1,350 yds = 1,234 m 📋	709172
			2,700 yds = 2,468 m 📋	709176



ANEFIL POLY AS BT

Material:	100 % polyester
Construction:	Continuous filament, outerbonded
Areas of use:	Seating systems
Recommended application:	Holding & closing seams, decorative seams, lapped & case
	seams, quilting seams
Product benefits:	+ Highly durable seams
	+ High tear resistance
	+ Optimum engineered extension
	+ Good rub resistance

No./Tkt.	dtex	Needle	Make-up	Code
30	900(3)	NM 110-130 / 18-21	2,700 m <u> </u>	560211
20	1350(3)	NM 120-140 / 19-22	2,000 m <u> </u>	560210



BAUSCHGARN

Material:	100 % polyester
Construction:	Textured multifilament
Areas of use:	Seating systems
Recommended application:	Overlock seams
Product benefits:	+ Very soft and dense edge coverage
	+ High bulked character
	+ Very soft seams

+ Optimum engineered extension

No./Tkt.	dtex	Needle	Make-up	Code
100	380(2)	NM 70-90 / 10-14	10,000 m <u> </u>	586919





Material:	100 % polyester	
Construction:	Textured multifilament	
Areas of use:	Seating systems	
Recommended application:	: Overlock seams	
Product benefits:	+ Very soft and dense edge coverage+ High bulked character	
	+ Very soft seams	

+ Optimum engineered extension

No./Tkt.	dtex	Needle	Make-up	Code
90	380(2)	NM 70-90 / 10-14	6,000 m <u> </u>	560350



Material:	100 % polyamide 6.6
Construction:	Continuous filament
Areas of use:	Seating systems, Interior trims, Accessories, Airbags
Recommended application:	Holding & closing seams, decorative seams, lapped & case seams, quilting seams, embroidery applications
Product benefits:	 + Optimum airbag - looper thread + Very high tear resistance + Durable, robust seams + Excellent performance on automatic sewing machines

- + Smooth thread surface
- + Optimum engineered extension
- + Very high rub resistance

No./Tkt.	dtex	Needle	Make-up		Code
60	500(3)	NM 90-100 / 14-16	12,000 m	Ō	586626
			approx. 12,000 m	Ō	586196
40	750(3)	NM 90-110 / 14-18	4,000 m	Ō	582204
			approx. 8,000 m	Ō	586684
30	1000(3)	NM 110-130 / 18-21	900 m	Ō	582867
			approx. 6,000 m	Ō	582077
20	1500(3)	NM 120-140 / 19-22	600 m	Ō	581941
			2,000 m	Ō	581992
			approx. 3,100 m	Ō	581976
			approx. 4,000 m	Ō	586150
17	2000(3)	NM 130-160 / 21-23	approx. 2,700 m	Ō	581362
13	2300(3)	NM 140-180 / 22-24	1,300 m	Ō	581836
			approx. 2,050 m	Ō	581842



AMIFILAS

Material:	100 % polyamide 6.6	
Construction:	Continuous filament	
Areas of use:	Seating systems, Interior trims, Accessories, Airbags	
Recommended application:	Holding & closing seams, decorative seams, lapped & case seams, quilting seams, SAB seams	
Product benefits:	 + Very high tear resistance + Excellent performance on automatic sewing machines + Smooth thread surface - Optimum on piece and extension 	

- + Optimum engineered extension
- + Durable, robust seams
- + Very high rub resistance

No./Tkt.	dtex	Needle	Make-up	Code
80	400 (3)	NM 70-90 / 10-14	2,400 m 🗓	560114
40	700(3)	NM 90-110 / 14-18	4,500 m <u> </u>	560110
30	900(3)	NM 110-130 / 18-21	5,000 m <u> </u>	560104
			6,500 m <u> </u>	560106
			8,000 m <u> </u>	560108
20	1350(3)	NM 120-140 / 19-22	1,000 m 直	560101
10	2700(3)	NM 160-230 / 23-26	1,000 m 🗓	560090



AMIFIL AS S-TWISTED

Material:	100 % polyamide 6.6	
Construction:	Continuous filament	
Areas of use:	Seating systens, Interior trims, Accessories	
Recommended application:	Holding & closing seams, decorative seams, lapped & case seams, quilting seams	
Product benefits:	 + Suitable for the left needle on a 2-needle machine + Very high tear resistance + Excellent performance on automatic sewing machines + Smooth thread surface + Optimum engineered extension + Durable, robust seams + Very high rub resistance 	

No./Tkt.	dtex	Needle	Make-up	Code
31	900(3)	NM 110-130 / 18-21	6,500 m 🗓	560115
21	1350(3)	NM 120-140 / 19-22	1,000 m <u> <u> </u></u>	560103



NEWBOND

Material:	100 % polyamide 6.6
Construction:	Continuous filament, outerbonded
Areas of use:	Airbags
Recommended application:	Quilting seams
Product benefits:	+ Perfect needle thread for airbags
	+ For critical seam operations in the automotive sector
	+ Suitable for sewing multi-layered fabrics

+ Ideal for 2-needle machines

No./Tkt.	dtex	Needle	Make-up	Code
30	1000(3)	NM 160-210/23-24	approx. <u> </u>	581879
20	1500(3)	NM 130-150 / 19-22	approx. <u> </u>	583461
17	1760(3)	NM 140-160 / 22-23	approx. <u> </u>	583446
13	2300(3)	NM 180-200/24-25	approx. <u> </u>	581257

ANEFIL NYLON AS BT

Material:	100 % polyamide 6.6
Construction:	Continuous filament, outerbonded
Areas of use:	Seating systems
Recommended application:	Holding & closing seams, decorative seams, lapped & case seams, quilting seams
Product benefits:	+ Particularly hard-wearing seams thanks to increased tear resistance
	+ Excellent performance on automatic sewing machines
	+ Smooth thread surface+ Optimum engineered extension
	+ Durable, robust seams
	+ Very high rub resistance
No./Tkt. dtex Nee	edle Make-up Code

No./Tkt.	dtex	Needle	Make-up	Code
40	700(3)	NM 90-110 / 14-18	3,500 m <u> </u>	560201
			8,000 m <u> </u>	560202
30	900(3)	NM 110-130 / 18-21	2,500 m <u> </u>	582695
20	1350(3)	NM 120-140 / 19-22	2,000 m <u> </u>	560200



ZWIBOND



Material:	100 % polyamide 6.6
Construction:	Continuous filament, innerbonded
Areas of use:	Seating systems, Airbags
Recommended application:	Quilting seams
Product benefits:	+ Perfect needle thread for airbags
	+ For critical seam operations in the automotive sector

- + Excellent performance on automatic sewing machines thanks to inner bonding
- + Suitable for sewing multi-layered fabrics
- + Ideal for 2-needle applications

No./Tkt.	dtex	Needle	Make-up		Code
60	500(3)	NM 90-100 / 14-16	approx. 12,000 m	Ō	583138
40	750(3)	NM 90-110 / 14-18	approx. 8,000 m	Ō	583085
20	1500(3)	NM 120-140 / 19-22	approx. 2.700 m	Ō	582964
			8,000 m	Ō	586617
13	2300(3)	NM 140-180 / 22-24	1,300 m	Ō	582840
			approx. 2,600 m	Ō	586674
8	2900(3)	NM 210-240 / 26-27	800 m	Ō	582816

GÜTERMANN K



Material:	100 % Nomex®
Construction:	Spun, long fibre
Areas of use:	Specials
Recommended application:	Quilting seams
Product benefits:	+ Short-term high-temperature-resistant at approx.+ Flame retardant and self-extinguishing

- + Non-melting
- + Good resistance to chemicals

360°C

+ Very high tear resistance

	No./Tkt.	dtex	Needle	Make-up	Code
GÜTERMANN K 403	70	400(3)	NM 90-100 / 14-16	700 m 🗓	701319
				5,000 m 🚊	701299
GÜTERMANN K 753	40	750(3)	NM 100-110 / 14-18	3,000 m 🚊	701342





Material:	100 % Nomex®
Construction:	Spun, short fibre
Areas of use:	Specials
Recommended application:	Quilting seams
Product benefits:	+ Short-term high-temperature-resistant at approx. 360°C
	+ Flame retardant and self-extinguishing
	+ Non-melting
	+ Good resistance to chemicals

+ Very high tear resistance

	No./Tkt.	dtex	Needle	Make-up	Code
ANESAFE® 50	50	600(3)	NM 100-110 / 16-18	4,000 m 🚊	705705
ANESAFE® 36	36	800(3)	NM 110-130 / 18-21	3,000 m 🚊	705704

GÜTERMANN L



Material:	100 % Nomex®
Construction:	Continuous filament
Areas of use:	Specials
Recommended application:	Quilting seams
Product benefits:	 + Short-term high-temperature-resistant at approx. 360°C and permanently at 260°C
	+ Flame retardant and self-extinguishing+ Good resistance to chemicals

- + Highly durable
- + Long-lasting
- + Very high tear resistance

	No./Tkt.	dtex	Needle	Make-up	Code
GÜTERMANN L 753	40	750(3)	NM 90-110 / 14-18	400 m [701505
				1,200 m 🧵	701491
				4,000 m 🚊	709328
GÜTERMANN L 1503	20	1500(3)	NM 120-140 / 19-22	600 m 🧴	701548
				2,000 m 🧵	724475

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