THREADS
FOR **APPAREL**

Gütermann

A SMOOTH START TO AUTUMN

with perfect coat seams

Autumn's crisp shades paired with a feeling of warmth and cosiness – we're talking coats, of course. Mark the transition from summer to winter with the utmost in elegance, thanks to timeless classics and shape-enhancing seams from A&E Gütermann.

Overall construction
Coats come in an incredible variety of materials, ranging from materials such as poplin and heavy wool fabrics to light fabrics or leather. This means that special requirements apply for the closing, holding and lockstitch seams – and therefore for the sewing thread, too. Our all-rounder is perfect for this purpose, particularly if you work with fine needles with a thickness of NM 70.

Our product recommendation:

> Mara 120 | Perma Core® 120 and Mara 150 ideal for closing, holding and lockstitch seams
>
> Mara 220 special sewing thread for high-quality double chain stitch, overlock seams, for double lockstitch closing seams and as under or looper thread for very fine fabrics
>
> Perma Core® Ultimate 180 ideal for double chain stitches and double lockstitches for lighter fabrics

Decorative seams
Look good – even in bad weather: The fabric density and the thickness of the thread must be precisely coordinated to avoid displacement and tension puckering in decorative and closing seams. With sewing threads from A&E Gütermann, you get optimal thread combinations for all fabric types, from light to heavy.

Our product recommendation:

> Mara 120 | Perma Core® 120 and Mara 150 as needle and looper thread for decorative seams lockstitched on one side on light and dense fabrics
>
> Mara 100 | Perma Core® 100 for medium to heavy fabrics such as trench coats
>
> Mara 70 | 30 and Perma Core® 75 | 27 depending on the decorative seam and desired decorative effect and for hard-wearing and heavier fabrics and leather

Buttonhole processing
Chic yet durable – buttonholes on coats are always a challenge in terms of function and aesthetics. Regardless of the properties of the fabric you're working with, we have the ideal thread for the buttonhole and the matching gimp thread.

TIP:
We recommend Mara 30 | 15 | 11 as a gimp thread for applying eyelet buttonholes in coats made of heavy wool fabrics, depending on the desired look. Mara 100 or Mara 120 is best suited for buttonholes on poplin coats.

Our product recommendation:

> Mara 120 | Perma Core® 120 for linen buttonholes in light fabrics
>
> Mara 100 | Perma Core® 100 for linen button holes in light to medium fabrics
>
> Mara 70 for silk-look buttonholes
>
> Mara 70 | Perma Core® 75 and Mara 30 | Perma Core® 36 as a needle thread in combination with a thicker looper thread for hand-stitched buttonholes
>
> Mara 30 | 15 | 11 as a gimp thread for eyelet buttonholes

Overlock and blindstitch seams
A&E Gütermann offers you the right sewing threads especially for overlocking coats made of fine fabrics without lining or with American half-lining with visible cutting edges.

Our product recommendation:

> Mara 220 | 150 for edge overlocking
>
> Skala 240 | Skala 360 | Filan 300 ideal for subtle blindstitching

FEATHERLIGHT WARMTH rock-solid seams

From soft down filling to synthetic fibres, quilted jackets are timeless classics and an essential item in any modern wardrobe. Despite the many different designs, quilted jackets have one thing in common: They always have puffy fabric sections with lockstitch seams in between. The load-bearing capacity of the seam material is particularly important here. Dense and tear-resistant seams from A&E Gütermann put you one step ahead.

From the Michelin man look to a refined and feather-light style, while current fashion trends determine the style of high-quality quilted jackets, their quality also depends on the way in which they are processed. The position and shape of the individual pockets of down, down-feather mix or synthetic fibres can vary according to the design.

Synthetic or down?
Both synthetic and down filling have advantages and disadvantages.

As a rule of thumb: If it is going to get wet, choose a quilted jacket with synthetic filling. Synthetic fibres also provide warmth when wet. Wet down or a down-feather mix, on the other hand, clumps and loses its warming effect.

Whether synthetic, down or down-feathermix, to guarantee optimum thermal insulation in the long term, the filling must be prevented from reaching the outside. The most susceptible parts are the needle's puncture holes and the seam. For this reason, it is very important to select the correct sewing threads and needles during production.

When selecting a sewing thread, it is important to ensure that the thread surface is not hairy. Otherwise, down and feathers can hook onto the fine hairs, making it easier for them to escape. Fine and uniform threads without thick spots make it possible to use finer needles and thus reduce the size of the puncture hole.

The selected outer material of the quilted jacket also plays an important role in the selection of the sewing thread. The outer material can be made of robust and functional fabric such as polyester or polyamide, which is often additionally treated with a special finish. This finish should ensure that the jacket is as water-repellent and windproof function as possible.

More processing tips

STITCH LENGTH
When producing down jackets, the stitch length should be 4 ½ stitches per centimetre where possible. Smaller stitches mean more stitch holes, but because of the even thread tension, feathers are less likely to escape.

THREAD TENSION
The machine tension should be as low as possible to prevent high thread tension. The threads must also interlace between the layers so that holes in the material are sealed by the thread interlacing.

SEWING NEEDLE
The size of the needle should be as fine as possible to avoid damage to the material as well as to keep the stitch holes as small as possible.

Upper and lower thread for water-repellent closing and lockstitch seams

No attachment of synthetic fibres, down or feathers to the sewing thread: Tera 60 REPEL, a 100% polyester continuous filament, has a structure that makes it extremely smooth and even. A special water-repellent finish also smooths the surface, which means that the barbed hooks found in feathers in particular can not catch the thread.

Closing and lockstitch seams on light to medium-weight outer materials

For a seam with a uniform and harmonious seam appearance: Mara 120 is our highly fine and uniform sewing thread made of 100% polyester. Produced with our unique Micro Core Technology®, Mara is highly tear-resistant and is almost hairless. The fine and uniform cross-section allows the use of particularly fine sewing needles with low thread tension. Micro loops prevent the synthetic or down filling from reaching the outside through the stitch holes on the fine outer material.

Embroidery thread for cuffs and collars

Piuma 140 is perfect as a knitting thread for the production of the collars and cuffs of quilted jackets. The textured microfibre is extra fine and does not form any pressure points. The soft and natural feel makes it comfortable to wear on the skin.

BUSINESS AS USUAL

Extraordinary seams for everyday wear

You're always on the go and you know how to dress for success. You want clothes that stand the test of time, but also offer elegance, beauty and comfort. A&E Gütermann sewing threads ensure stylish looks that for memorable moments.

It's the little details, such as the collar, sleeves, pockets and buttonholes, that immediately draw the eye, so their quality needs to impress.

Overall construction

Elegance paired with efficiency – that's what sets sewing threads from A&E Gütermann apart. The fabric and seam must be in harmony when creating costumes or suits. At the same time, the specific processing procedures must be taken into account. Choosing the right sewing thread plays a key role here. With Micro Core Technology® found nowhere else in the world and our sophisticated Poly/Poly-Technology, we are your partner for the perfect seam.

Our product recommendation:

Mara 120 | Perma Core® 120 and Mara 150 ideal for closing, holding and lockstitch seams

Mara 220 special sewing thread for high-quality double chain stitch, overlock seams, for double lockstitch closing seams and as under or looper thread for very fine fabrics

Perma Core® Ultimate 180 ideal for double chain stitches and double lockstitches for lighter fabrics

Buttons and buttonholes

Whether open or buttoned, buttonholes and buttons aren't just functional, but utterly essential to the overall look. Numerous factors are important here: A uniform seam is just as important as the sewing thread structure, colour and appearance. You can rely on proven quality with our sewing thread solutions. For eyelet buttonholes, Mara 70 is ideally suited to a wide range of fabric qualities – including in combination with Mara thread units 30 and 50. The finer Mara thread count is suitable for linen buttonholes.

Our product recommendation:

Mara 70 | Perma Core® 75 ideal for the classic eyelet buttonhole

Mara 120 | Perma Core® 120 for linen buttonholes on finer fabrics

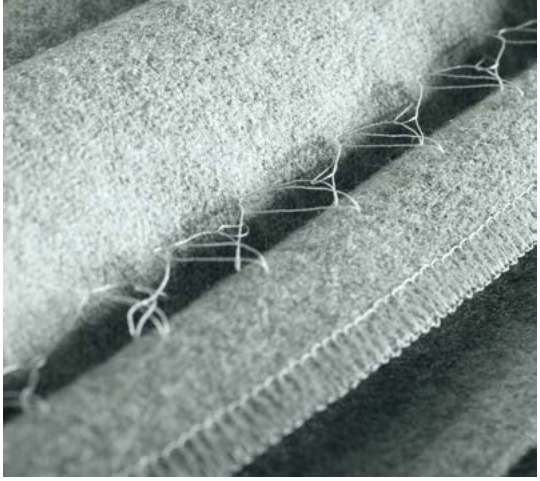
Perma Core® Ultimate 180 ideal for double chain stitches and double lockstitches for finer fabrics

Work on linings
Perfection starts where it's not immediately noticeable: inside. For typical lining work with double lockstitches, double chain stitches and overlock seams, we offer you numerous functional and visually outstanding solutions: highly resistant seams that are machine-safe, without annoying fibre fly, and that can still be optimally sewn with fine NM 65 needles.

TIP:
Pressing through of the seams when ironing can be prevented by using a finer looper thread for double chain stitch and overlock seams.

Our product recommendation:

> Mara 220 | 150 as a particularly fine looper thread for double chain stitches and overlock seams that do not cause seam marks



Overlock and blindstitch seams
Sometimes, perfection is visible in the fact that you can't see anything – especially with seams that should remain invisible. A&E Gütermann offers you the perfect sewing threads for overlocking and blindstitching.

Our product recommendation:

> Mara 220 for high-quality overlock seams without seam marks after ironing
>
> Skala 360 | 240 as an alternative for overlock seams and single-thread blindstitching that do not leave seam marks when ironing
>
> Filan 300 for the perfect blindstitch seam

PERFECTION AND STYLE belong together, like a waistcoat and jacket

Your clothing defines your appearance. When everything has to be just right, you don't want half measures, you simply need the best. Our unique sewing thread makes waistcoats as stylish as they should be: simply unbeatable.

Overall construction
For high-end garments, everything has to be just right – and the thread used is an essential part of this. With our premium Mara sewing thread, manufactured with the unique Micro Core Technology®, you can rely on a true all-rounder that sets standards throughout. It is completely dependable for use on automatic sewing machines and ensures perfect closing and holding seams with its high tear and rub resistance. For an unrivalled look and functionality.

Our product recommendation:

Mara 120 | 150 | Perma Core® 120

Buttons and buttonholes
Buttonholes are undoubtedly one of the most prominent quality features of garments – and one of the most demanding in terms of workmanship. The right thread is absolutely crucial, from the uniformity of the seam appearance and freedom from knots, to the specific colour and look. A&E Gütermann offers a variety of high-quality solutions. We recommend Mara 70 as a needle thread specifically for creating buttonholes. Depending on the fabric quality, we recommend Mara 30 or Mara 50 as a looper thread, as Mara's silky appearance is visually impressive, for an outstanding look.

Our product recommendation:

Mara 70 | Perma Core® 75
as needle thread

Mara 30 | 50 | Perma Core® 36
as looper thread

Mara 15 | 11 as gimp thread

Mara 80 for sewing on buttons

Mara 100 for lapels and sleeve buttonholes

Decorative seams
It's often the small details that make the difference. Decorative stitching adds individuality and a touch of flamboyance to garments. A&E Gütermann offers you the very best sewing threads in the world: uniform and with ideal stretch, they offer optimal sewing reliability. In addition to our classic silk threads, we particularly recommend our Mara products. These unique sewing threads are particularly suitable for accent applications, with an even, lustrous surface that catches the eye.

Our product recommendation:

R 402 E No. 75 waxed reeled silk for AMF edge-stitching machine

Mara 120 | 70 | 30 and
Perma Core® 120 | 75 as needle and looper thread on double lockstitch sewing machines

Overlocking, trimming, pricking
Not every sewing thread is visible – and that's the way it should be. We offer a full range of options for this. Our semi-transparent polyester seams are particularly suitable for hemming and pricking work. They are extremely fine, easy to sew and offer excellent colour matching thanks to their semi-transparent appearance. This reduces colour changes to a minimum and prevents seam marks when ironing.

Our product recommendation:

Skala 360 | 240

Filan 300

Basting
Very fine threads are required for tacking and penetrating the back, side and sleeve slits or for attaching labels. We offer a particularly fine special sewing thread for finishing, which leaves no seam marks and can also be easily pulled out of the fabric if necessary.

Our product recommendation:

Mara 220

YOU WEAR THE TROUSERS, we supply the right sewing threads

From a difficult business meeting to an elegant evening event: your trousers don't just need to look good, they need to fit perfectly, too. In addition to the fabric and workmanship, the sewing thread naturally plays an important role here. A&E Gütermann is the absolute expert in this. We have the right sewing thread for all requirements.

Overall construction
Our product recommendations are the tool of choice for practically all seam operations on trousers. You can't go wrong with sewing threads from A&E Gütermann. Our products are resistant to tearing and abrasion and are suitable for all closing and holding seams, from interim production and pocket and collar processing to assembly and final production.

Our product recommendation:

> Mara 120 | Perma Core® 120 and
>
> Mara 150 for seam positions that are not so heavily stressed (e.g. overlocking, hem processing)

Overlock seams
Overlock seams on trousers have to fulfil the highest quality requirements. Especially on the side, crotch and seat seams, the threads must not chafe and must not leave any marks when ironed. Our textured polyester threads are particularly well suited to this purpose. They can be used for the entire range of applications and can also be sewn extremely effectively on serging machines. For fly pieces and pocket pouches, we recommend overlocking with particularly fine threads.

Our product recommendation:

> E 121 – No. 240 for soft edge overlocking of side, crotch and seat seams on light to medium-weight fabrics
>
> E 151 – No. 160 as an alternative for heavier fabrics
>
> Mara 150 | 220 and Perma Core® 120 for high-quality finishing of the fly pieces and pocket pouches, as well as the side, crotch and seat seams

Heavily stressed seam positions
An elegant look is one thing, reliability is another: Certain seam positions, such as side, crotch and seat seams, are subject to particular strain when it comes to trousers. This requires sewing threads that are tear-resistant and stretchy. You're always on the safe side with our solutions.

Our product recommendation:

> Mara 120 | Perma Core® 120 in light and medium fabric qualities with 5 stitches/cm
>
> Mara 100 for heavy fabric grades

Buttonhole processing
When it comes to trousers, buttons and buttonholes not only have to look good, but they have to be especially elastic, too. We particularly recommend our unique Mara sewing threads, which boast a silky appearance and outstanding processing properties – such as reliability for use on automatic sewing machines without fibre fly.

TIP:
You can achieve the required seam strength and seam seam stretching by increasing the stitch density to 5 stitches/cm. For particularly stressed seam positions in trouser production, such as the seat seam, we recommend using a slightly thicker sewing thread if the sewing material allows it.

TIP:
Particularly with side and crotch seams, overlock seams with finer sewing threads are required, as the multi-stitched fabric edges do not visibly press through on the right side or leave annoying marks.

Our product recommendation:

> Mara 70 | 80 | 100
>
> Perma Core® 75

CLOTHES MAKE THE PERSON
and seams make the clothes

We believe that beauty is not in the eye of the beholder, but in the perfection of the seam. With the unique sewing threads from A&E Gütermann, you can rely on the highest quality – for clothes that create unforgettable moments.

Overall construction
Seams pretty good: with A&E Gütermann, clothes get the seams they deserve. Perfect quality is just as important as the efficiency of our customers' processes, as we believe that cost-optimised production and a perfect seam are not mutually exclusive! We offer sewing threads for light to medium-weight fabrics for closing and holding seams on clothes. We also have fine threads available – especially for light fabrics – to prevent displacement puckering or marks when ironing.

Our product recommendation:

> Mara 120 | Perma Core® 120 for light to medium weight fabrics
>
> Mara 150 particularly suitable for dense fabrics
>
> Mara 220 as a looper thread for double chain stitch seams or as a bottom thread for double lockstitch seams for very light and thin fabrics
>
> Perma Core® Ultimate 180 as a looper thread for double chain stitch seams

Decorative seams
A decorative seam can really make a dress. The choice of thread should not only be based on the thickness of the sewing material, but also on the desired decorative seam effect. With our sewing threads, your clothes will stand out from the crowd: perfect product quality for eye-catching details.

TIP:
For a perfect result when working with elastic knitted fabrics like jersey, we recommend our Mara product range. You can achieve optimum elasticity of the seam – without increasing the thread consumption – with Maraflex, our extremely elastic thread, which delivers a highly elastic seam without thread breakage. We recommend Maraflex 50 and Maraflex 30 for striking but flexible decorative seams. For lighter materials, we offer the finer thicknesses 150, 120 and 80.

Our product recommendation:

> Mara 150 for light fabrics
>
> Mara 120 | Perma Core® 120 for medium-weight fabrics
>
> Mara 100 for heavy fabrics
>
> Mara 70 | 50 |30 for elegant and distinctive seams

Overlock and blindstitch seams
Flexible to use, always elegant: With the unique sewing threads from A&E Gütermann, you can give every dress the perfect finish. Our semi-transparent Skala threads have been specially developed for overlocking and blindstitch seams on plain and colourful fabrics. They are translucent and hardly noticeable.

Our product recommendation:

> Mara 220 for high-quality overlock seams
>
> Skala 360 | 240 for overlock seams and single-thread blindstitching
>
> Filan 300 for the perfect blindstitch
>
> Gütermann E 121 for cost-effective overlock seams

ONLY THE BEST FOR EVERY DAY

Premium seams for blouses and shirts

Seeing the special things in everyday life – practically no other item of clothing has to meet the same high standards as a blouse or shirt. The uniqueness of a moment comes from the almost infinite variations of what might have been. Perfection means keeping all possibilities open. Just like with the sewing threads from A&E Gütermann.

Overall construction
When the unusual becomes standard, the selection of the right sewing thread becomes even more important. Almost anything is possible, from fabric quality to details such as tucks, ruffles and lace, as well as individual cuff, collar, fastening and colour options. Efficiency is also a key factor in production. That's why A&E Gütermann offers you both highly specialised sewing threads and sewing threads that can be used reliably on automatic sewing machines and for all sewing operations. In other words, everything is possible.

Our product recommendation:

> Mara 150 | 120
>
> Perma Core® Ultimate 180

Decorative, lockstitch and closing seams for fine fabrics
On blouses, high quality is usually apparent in the special details. Decorative stitching with high stitch density, different top-stitching with single or multiple needle machines, special sewing material placements such as felled seams as closing seams, and very fine and elegant fabrics all feature here. Sewing technological processing is especially demanding in this area. Thanks to the particularly fine cross-section of our sewing threads, ripples on lockstitch, decorative and closing seams can be minimised , even with low product weight. So everything stays smooth – because smooth and perfect seams are an important quality feature.

TIP:
We recommend Skala 360 for smooth seams, especially for double chain stitch seams, which are often used for felled seams. Despite its special fineness, it does not lose any of its seam strength. The risk of ironing marks and application of the thread loops on the underside is significantly reduced with Skala 360.

Our product recommendation:

> **Mara 150 | 120** as needle and looper thread
>
> **Skala 360** alternatively as looper thread
>
> **Perma Core® Ultimate 180** as needle and looper thread
>
> **Skala 360** alternatively as looper thread

Lockstitch seams for mid-weight fabrics
Fine fabrics with a high warp and weft density also require smooth processing. The texture of the material plays an important role, especially in work steps that are sewn with double lockstitch. The collar, cuffs, button row, shoulder and back yoke, and breast pocket must all be sewn flawlessly – and that means no puckering. The fine and particularly even cross-sections of our sewing threads deliver perfect results here.

TIP:
By combining thin sewing threads with correspondingly fine sewing needles, the risk of displacement puckering is kept to a minimum right from the start.

Our product recommendation:

Mara 150 | 120

Perma Core® Ultimate 180

Closing seams for medium-weight fabrics
In the case of side and sleeve insert seams, which are often created using multi-layered felled seams, the support and the strength of the sewing thread are subject to especially exacting requirements. We recommend our Mara or Perma Core® Ultimate as the perfect solution – combined with our fine Skala, depending on the type of fabric, for a seam that does not mark and meets all requirements.
In addition to the use of the particularly fine sewing thread combinations, a uniform, smooth seam look is achieved by selecting a very small number of stitches.
TIP:
By using our continuous filament Skala as a looper thread, visible seam marks are avoided after ironing on particularly light and fine fabrics.

Our product recommendation:

Mara 150 | 120 as needle and looper thread

Skala 360 alternatively as looper thread

Perma Core® Ultimate 180 as needle and looper thread

Skala 360 alternatively as looper thread

Our high-quality sewing threads give you the perfect felled seam.

Buttons and buttonholes

Buttonholes must look nice and must not tear. Buttons need to remain just as secure from the first to the last day of a shirt's useful life. Machine sewing processes that use different zig-zag stitch types with a high stitch density place the highest demands on the stability of the sewing thread.

With Mara and Perma Core® Ultimate, you can rely on optimal solutions that provide robustness and uniformity.

Our product recommendation:

Mara 150 | 120
Perma Core® Ultimate 180

STRONG SEAMS

for hard-wearing denim

Over the years, denim has evolved from a simple pair of cotton trousers to a cultural symbol of the times. Denim makes us look tough, resilient and adventurous. It's no coincidence, then, that denim is a must-have in any wardrobe and offers a multitude of uses for your collection. All that’s missing is a suitable strong sewing thread.

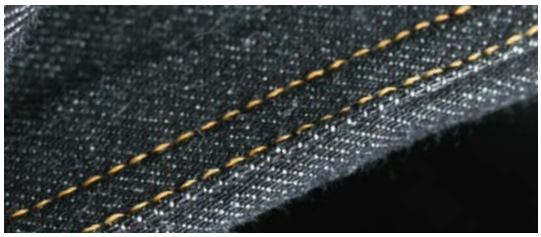
The finishing options for achieving vintage and destroyed looks multiply with each new trend and place special demands on the seams. In addition to mechanical stress, a seam must also be able to withstand enzymatic and chemical treatments.

For that reason, the sewing threads used in producing jeans have to be particularly resilient: they require a high degree of abrasion resistance and colour fastness and must also ensure reliable sewing technological processing.

There is a huge range of denim fabrics available and the sewing process is a major challenge.

Lockstitch and decorative seams with particularly coarse sewing threads characterise the unique style. The A&E Gütermann range also offers a wide variety of products for this purpose.

Our product recommendations:



Felled seams
These highly robust seams with a double chain stitch often form side and crotch seams, dividing seams and saddle seams. In the saddle area and crotch area, there are often several layers of fabric on top of each other; felled seams with up to 16 layers of sewing material are quite common. During processing, both the needle and the sewing thread used must withstand the heat generated by the friction.

Decorative seams
In addition to the effects created by the targeted washing or post-treatment processes, jeans get a special look through decorative stitching. Many decorative seams are made with the same sewing thread that is used for the closing seams. For prominent raised seams, we also offer coarse threads.

Lockstitch seams
The openings of pockets and trouser flies are often sewn using a double lockstitch. For a uniform look, an upper thread can be selected with the same thickness as the other lockstitch seams. A thread with a lower thread count can be used as the bobbin thread, so the seam is hardly noticeable.

Waistbands
Waistbands include thick sections of fabric that can prove a challenge. The bartacks on the belt loops, in particular, are a challenge for needles and thread. Stitches are sewn close to each other at high speed. The sewing thread must be able to withstand the friction heat generated.

Buttonholes
In order to avoid processing errors in the production of buttonholes, the thread count, needle size, stitch density, overstitch width of the zig-zag stitch and the incision surface of the buttonhole should be precisely coordinated.

Perma Core® Tkt. 120 | 75 | 50 | 36 | 27
Our highly tear- and rub-resistant core spun thread made of 100% polyester: Perma Core® is suitable for heavy-duty seams, making it perfect for any use with denim. This special sewing thread can also withstand intensive finishing methods such as stone-washing, and is machine-safe and ideally suited for multi-directional sewing.

Anecot Plus® 50/3 | 30/3 | 24/3 | 16/3 | 12/4
Our long staple cotton fibre is perfect for garment-dyeing denim. The garment dyes have a unique look depending on the dyes and dyeing processes used. The long staples are combed, singed and mercerized for an outstanding look.

Overlock seams
Overlock seams prevent the cut edges from fraying and often come into direct contact with the skin. Different sewing threads are used depending on the requirements. Robust core spun thread made of 100% polyester is particularly popular. Textured threads are used for added comfort and softly envelop the rigid denim fabric.

Perma Spun® 50 | 75 | 120
The spun sewing thread has a high sewing performance on almost all sewing machines. It has been specially designed for non-critical seams such as overlock seams in light and heavy fabrics and is notable for its superb abrasion resistance. Perma Spun® is our environmentally friendly solution made of 100% polyester for simple seam applications.

Wildcat Plus® 40 | 80 | 160
This soft sewing thread was developed specifically for comfort. Wildcat Plus® has a very natural feel, making it ideal for seams that come into direct contact with the skin. In addition to its soft covering around its edges, it is colour-fast and chemically resistant.

AT A GLANCE Our product recommendations for you

A&E Gütermann offers you the perfect sewing thread for every seam position. With the highest durability and an outstanding appearance. With a consistently high quality and in a wide range of colours.

COAT

	processing	A&E Gütermann solution		
		Product	No./Tkt.	tex
Overall construction	Standard	**Mara 150**	150	20
		Mara 120	120	25
		Perma Core® 120	120	24
	Poplin	**Mara 150**	150	20
	Double lockstitch/ double chain stitch	**Mara 220**	220	13
		Perma Core® Ultimate 180	180	16
Work on linings	Standard	**Mara 150**	150	20
		Mara 120	120	25
		Perma Core® 120	120	24
Decorative seams	Standard	**Mara 150**	150	20
		Mara 120	120	25
		Mara 100	100	30
	High quality	**Mara 70**	70	40
		Mara 30	30	100
		Perma Core® 75	75	40
		Perma Core® 27	27	105
Buttonhole	Standard	**Mara 70**	70	40
		Perma Core® 75	75	40
	Fine fabrics	**Mara 120**	120	25
		Perma Core® 120	120	24
	Hand-stitched look	**Mara 70**	70	40
		Mara 30	30	100
		Perma Core® 75	75	40
		Perma Core® 36	36	80
	Reverse	**Mara 70**	70	40
		Mara 100	100	30
		Perma Core® 75	75	40
	Bartacks	**Mara 120**	120	25
		Perma Core® 120	120	24
	Gimp thread	**Mara 30**	30	100
		Mara 15	15	200
		Mara 11	11	265
Sewing on buttons	Standard	**Mara 80**	80	40
		Perma Core® 75	75	40
	Alternative	**Mara 100**	100	30
Overlocking	High quality	**Mara 220**	220	13
		Mara 150	150	20
	Cost-effective	**E 121**	240	12
Blindstitch	Semi-transparent	**Skala 240**	240	12
		Skala 360	360	8
		Filan 300	300	10
	Coat hem	**Skala 360**	360	8
		Skala 240	240	12

BLAZER AND JACKET

processing		A&E Gütermann solution		
		Product	No./Tkt.	tex
Overall construction	Standard	**Mara 120**	120	25
		Mara 150	150	20
		Perma Core® 120	120	24
Work on linings	Standard	**Mara 150**	150	20
		Mara 220	220	13
Decorative seams	Hand stitching/ edge-stitching machines	**R 402 E**	75	40
		Mara 120	120	25
		Mara 70	70	40
		Perma Core® 120	120	24
		Perma Core® 75	75	40
	Double lockstitching machines	**Mara 70**	70	40
		Mara 50	50	60
		Mara 30	30	100
		Perma Core® 75	75	40
		Perma Core® 27	27	105
Buttonhole	Standard	**Mara 70**	70	40
		Perma Core® 75	75	40
	Hand-stitched look	**Mara 70**	70	40
		Mara 30	30	100
		Perma Core® 75	75	40
		Perma Core® 36	36	80
	Reverse	**Mara 70**	70	40
		Mara 100	100	30
		Perma Core® 75	75	40
	Bartacks	**Mara 120**	120	25
		Perma Core® 120	120	24
	Gimp thread	**Mara 30**	30	100
		Mara 15	15	200
		Mara 11	11	265
		Perma Core® 27	27	105
Sewing on buttons	Standard	**Mara 80**	80	40
		Perma Core® 75	75	40
	Alternative	**Mara 100**	100	30
Overlocking	High quality	**Mara 220**	220	13
		Mara 150	150	20
	Cost-effective	**E 121**	240	12
Overlocking, trimming, pricking	Standard	**Skala 360**	360	8
		Skala 240	240	12
		Filan 300	300	10
Basting or row work on jackets	Standard	**Mara 220**	220	13

WAISTCOAT

	processing	A&E Gütermann solution		
		Product	No./Tkt.	tex
Overall construction	Standard	**Mara 150**	150	20
		Mara 120	120	25
		Perma Core® 120	120	24
Decorative seams	Standard	**Mara 70**	70	40
		Mara 100	100	30
		Perma Core®	75	40
	High quality	**Mara 70**	70	40
		Mara 50	50	60
		Perma Core® 75	75	40
		Perma Core® 50	50	60
Buttonhole	Standard	**Mara 70**	70	40
		Perma Core® 75	75	40
Sewing on buttons	Standard	**Mara 80**	80	40
		Perma Core® 75	75	40
	Alternative	**Mara 100**	100	30

TROUSERS

	processing	A&E Gütermann solution		
		Product	No./Tkt.	tex
Overall construction	Standard	**Mara 120**	120	20
		Perma Core® 120	120	24
	Alternative	**Mara 150**	150	20
Buttonhole	Standard	**Mara 70**	70	40
		Perma Core® 75	75	40
	Alternative	**Mara 80**	80	40
Sewing on buttons	Standard	**Mara 100**	100	30
		Mara 80	80	40
		Perma Core® 75	75	40
Overlocking	Standard	**E 121**	240	12
	High quality	**Mara 220**	220	13
		Mara 150	150	20
	Pocket pouches	**Mara 220**	220	13
Blindstitch	Trouser hem	**Skala 360**	360	8
		Skala 240	240	12

BLOUSES/SHIRTS

processing		A&E Gütermann solution		
		Product	No./Tkt.	tex
Overall construction	Standard	**Mara 150**	150	20
		Mara 120	120	25
		Perma Core® Ultimate 180	180	16
Closing and lockstitch seams	Standard	**Mara 150**	150	20
		Mara 120	120	25
		Perma Core® Ultimate 180	180	16
	Alternative	**Skala 360** (as looper thread)	360	8
Buttonhole **Sewing on buttons**	Standard	**Mara 150**	150	20
		Mara 120	120	25
		Perma Core® Ultimate 180	180	16
Felled seam	Standard	**Mara 150**	150	20
		Mara 120	120	25
		Perma Core® Ultimate 180	180	16
	Alternative	**Skala 360** (as looper thread)	360	8

DRESS

processing		A&E Gütermann solution		
		Product	No./Tkt.	tex
Overall construction	Standard	**Mara 120**	120	25
		Perma Core® 120	120	24
	For light fabrics	**Mara 220**	220	13
		Perma Core® Ultimate 180	180	16
	Double lockstitch/ double chain stitch	**Mara 220**	220	13
		Perma Core® Ultimate 180	180	16
Decorative seams	For light fabrics	**Mara 150**	150	20
	For medium-weight fabrics	**Mara 120**	120	25
		Perma Core® 120	120	24
	For heavy fabrics	**Mara 100**	100	30
	Elegant	**Mara 70**	70	40
	Distinctive	**Mara 50**	50	60
	Impactful	**Mara 30**	30	100
Buttonhole	Standard	**Mara 70**	70	40
		Perma Core® 75	75	40
		Mara 120	120	25
		Perma Core® 120	120	24
	Flat, eyelet buttonhole	**Mara 150**	150	20
		Mara 120	120	25
	Linen buttonhole	**Perma Core® 120**	120	24
Sewing on buttons	Standard	**Mara 80**	80	40
		Perma Core® 75	75	40
	Alternative	**Mara 100**	100	30
Overlocking	High quality	**Mara 220**	220	13
		Skala 360	360	8
		Skala 240	240	12
	Cost-effective	**E 121**	240	12
Blindstitch	Semi-transparent	**Skala 240**	240	12
		Skala 360	360	8
		Filan 300	300	10

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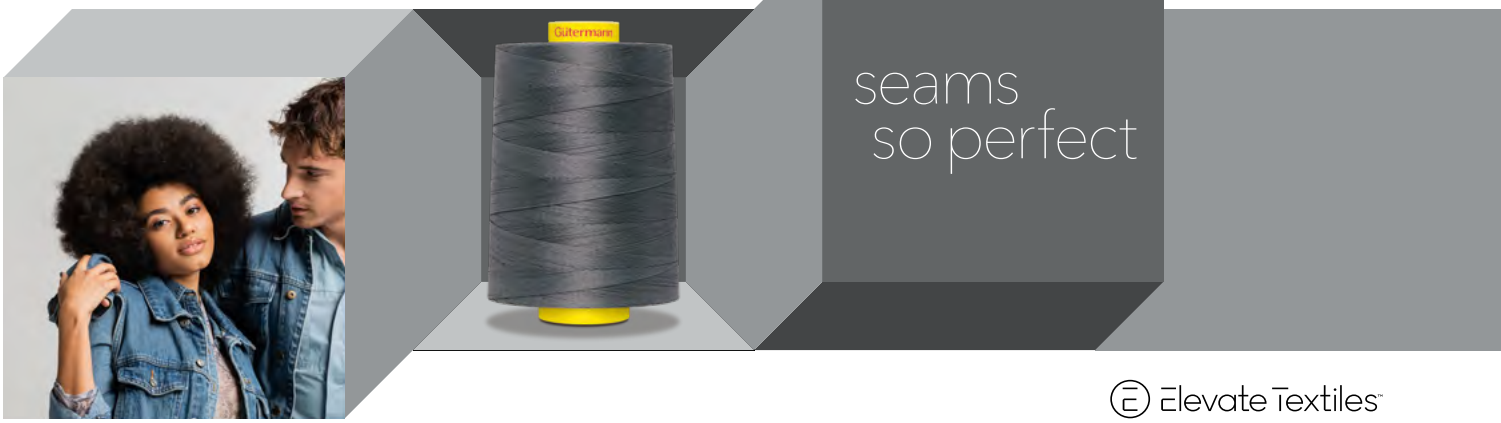

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