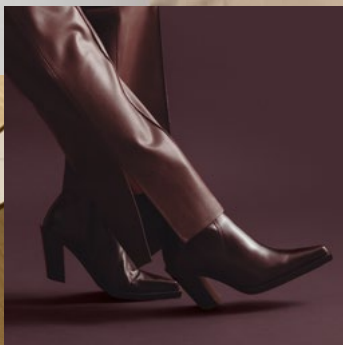


THREAD  
GUIDE

Gütermann



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## 100% Polyester

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## 100% Polyester, recycled

|                        |   |
|------------------------|---|
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## 100% Polybutylene-terephthalate

|                        |   |
|------------------------|---|
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## 100% Cotton

|              |    |
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|                                  |    |
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## Aramide / 100% Nomex®

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# Mara

for most beautiful seams

**Material / Construction**

100 % polyester / Micro Core Technology®

**Recommended application**

Closing, decorative, overlock, safety & coverstitch seams, straight button holes, eyelet button holes with/without gimp

**Product benefits**

- + Unique MCT® construction
- + Brilliant colours with a silky appearance
- + Fine thread cross-section for particularly smooth seams
- + Excellent performance on automatic sewing machines
- + No fibre fly

| No./Tkt. | dtex    | Needle                 | Make-up | Code   |
|----------|---------|------------------------|---------|--------|
| 220      | 130(1)  | NM 60 - 65 / 8 - 9     | 5,000 m | 772607 |
| 150      | 200(2)  | NM 65 - 70 / 9 - 10    | 1,000 m | 713953 |
|          |         |                        | 5,000 m | 713961 |
| 120      | 250(2)  | NM 70 - 80 / 10 - 12   | 1,000 m | 700207 |
|          |         |                        | 5,000 m | 700185 |
| 100      | 300(2)  | NM 70 - 90 / 10 - 14   | 1,000 m | 707694 |
|          |         |                        | 5,000 m | 707708 |
| 80       | 400(2)  | NM 80 - 100 / 12 - 16  | 800 m   | 700428 |
|          |         |                        | 5,000 m | 700410 |
| 70       | 400(3)  | NM 90 - 100 / 14 - 16  | 700 m   | 702170 |
|          |         |                        | 7,000 m | 702153 |
| 50       | 600(3)  | NM 90 - 110 / 14 - 18  | 500 m   | 702277 |
|          |         |                        | 5,000 m | 702250 |
| 30       | 1000(3) | NM 110 - 130 / 18 - 21 | 300 m   | 702404 |
|          |         |                        | 3,000 m | 702358 |
| 15       | 2000(3) | NM 140 - 160 / 22 - 23 | 150 m   | 720623 |
|          |         |                        | 1,500 m | 720429 |
| 11       | 2600(4) | NM 160 - 180 / 23 - 24 | 110 m   | 702510 |
|          |         |                        | 1,130 m | 702501 |



Available with a water-repellent finish upon request.



# Mara rPET

made from 100 % recycled polyester

## Material / Construction

100 % polyester, recycled / Micro Core Technology®

## Recommended application

Closing, decorative, overlock, safety & coverstitch seams, straight button holes, eyelet button holes with/without gimp

## Product benefits

- + Unique MCT® construction
- + Brilliant colours with a silky appearance
- + Fine thread cross-section for particularly smooth seams
- + Excellent performance on automatic sewing machines
- + No fibre fly

| No./Tkt. | dtex    | Needle                 | Make-up | Code   |
|----------|---------|------------------------|---------|--------|
| 120      | 250(2)  | NM 70 - 80 / 10 - 12   | 1,000 m | 708467 |
|          |         |                        | 5,000 m | 708468 |
| 70       | 400(3)  | NM 90 - 110 / 14 - 16  | 700 m   | 708473 |
|          |         |                        | 7,000 m | 708474 |
| 50       | 600(3)  | NM 90 - 110 / 14 - 18  | 500 m   | 708470 |
| 30       | 1000(3) | NM 110 - 130 / 18 - 21 | 300 m   | 708437 |
| 15       | 2000(3) | NM 140 - 160 / 22 - 23 | 150 m   | 708479 |
| 11       | 2650(4) | NM 160 - 180 / 23 - 24 | 110 m   | 708518 |



# Maraflex

for highly elastic seams

## Material / Construction

100 % polybutylenterephthalat / Micro Core Technology®

## Recommended application

Closing & decorative seams

## Product benefits

- + Unique MCT® construction
- + Exceptionally elastic
- + Brilliant colours with a silky appearance
- + Increases the elasticity of double stitch seams
- + No fibre fly

| No./Tkt. | dtex   | Needle                | Make-up | Code   |
|----------|--------|-----------------------|---------|--------|
| 120      | 380(2) | NM 70 - 80 / 10 - 12  | 1,500 m | 716936 |
| 80       | 550(3) | NM 90 - 100 / 14 - 16 | 2,000 m | 716103 |
| 50       | 880(2) | NM 90 - 110 / 14 - 18 | 3,000 m | 717142 |





# Tera

## for brilliant seams

**Material / Construction** 100 % polyester / Continuous filament

**Recommended application** Closing & decorative seams

**Product benefits**

- + Durable, robust seams
- + Very high tear resistance
- + Very even
- + Shiny appearance
- + High rub resistance

| No./Tkt. | dtex    | Needle                 | Make-up | Code   |
|----------|---------|------------------------|---------|--------|
| 80       | 350(3)  | NM 70 - 90 / 10 - 14   | 2,400 m | 704261 |
|          |         |                        | 8,000 m | 704270 |
| 60       | 500(3)  | NM 90 - 100 / 14 - 16  | 1,800 m | 704350 |
| 40       | 750(3)  | NM 90 - 110 / 14 - 18  | 1,200 m | 704440 |
|          |         |                        | 4,000 m | 704458 |
| 30       | 1000(3) | NM 110 - 130 / 18 - 21 | 900 m   | 704601 |
|          |         |                        | 3,000 m | 704610 |
| 20       | 1500(3) | NM 120 - 140 / 19 - 22 | 600 m   | 704687 |
|          |         |                        | 2,000 m | 704695 |
| 15       | 2000(3) | NM 140 - 160 / 22 - 23 | 400 m   | 784290 |
| 10       | 2900(3) | NM 160 - 230 / 23 - 26 | 300 m   | 704814 |
|          |         |                        | 1,000 m | 704822 |
| 8        | 3750(3) | NM 200 - 250 / 25 - 27 | 800 m   | 704920 |
| 5        | 6000(3) | NM 250 - 300 / 27 - 29 | 500 m   | 704857 |



Available with a water-repellent finish upon request.



# Skala

for almost invisible seams

|                                |                                                                                                                                                                                                                                                                                                                    |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Material / Construction</b> | 100 % polyester / Continuous filament, bonded                                                                                                                                                                                                                                                                      |
| <b>Recommended application</b> | Overlock, safety, blindstitched seams                                                                                                                                                                                                                                                                              |
| <b>Product benefits</b>        | <ul style="list-style-type: none"> <li>+ Optimum colour matching thanks to semi-transparent appearance</li> <li>+ Fine thread cross-section for particularly smooth seams</li> <li>+ No visible seam marks after ironing</li> <li>+ Use of particularly fine needle sizes possible</li> <li>+ Very even</li> </ul> |



| No./Tkt. | dtex   | Needle             | Make-up  | Code   |
|----------|--------|--------------------|----------|--------|
| 360      | 80(1)  | NM 55 - 60 / 7 - 8 | 5,000 m  | 749591 |
|          |        |                    | 20,000 m | 704997 |
| 240      | 120(1) | NM 60 - 65 / 8 - 9 | 5,000 m  | 720763 |
|          |        |                    | 10,000 m | 715174 |
| 200      | 150(1) | NM 60 - 65 / 8 - 9 | 10,000 m | 705020 |



# Tera fine

for almost invisible seams

|                                |                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Material / Construction</b> | 100 % polyester / Continuous filament                                                                                                                                                                                                                                                                                                |
| <b>Recommended application</b> | Overlock, safety, blindstitched, trimming & padded seams                                                                                                                                                                                                                                                                             |
| <b>Product benefits</b>        | <ul style="list-style-type: none"> <li>+ Semi-transparent look for discreet seams with multicoloured fabrics</li> <li>+ Fine thread cross-section for particularly smooth seams</li> <li>+ Use of particularly fine needle sizes possible</li> <li>+ No visible seam marks after ironing</li> <li>+ Smooth thread surface</li> </ul> |



| No./Tkt. | dtex   | Needle              | Make-up  | Code   |
|----------|--------|---------------------|----------|--------|
| 180      | 160(2) | NM 65 - 70 / 9 - 10 | 5,000 m  | 704172 |
|          |        |                     | 10,000 m | 704180 |
|          |        |                     | 20,000 m | 704199 |



# Piuma

for soft seams

**Material / Construction** 100 % polyester / Textured microfibres

**Recommended application** Overlock, safety & coverstitch seams

**Product benefits**

- + Soft seams
- + Very soft and dense overedge coverage
- + High texturized character
- + Needle and looper thread suitability
- + Optimum engineered extension



| No./Tkt. | dtex   | Needle              | Make-up  | Code   |
|----------|--------|---------------------|----------|--------|
| 160      | 190(1) | NM 65 - 70 / 9 - 10 | 5,000 m  | 711616 |
| 140      | 220(1) | NM 65 - 70 / 9 - 10 | 5,000 m  | 711004 |
|          |        |                     | 10,000 m | 788910 |



# Princess

for soft seams

**Material / Construction** 100 % polyamide 6.6  
Textured microfibres (Princess 80 and 160)  
Continuous filament (Princess 120)

**Recommended application** Overlock, safety & coverstitch seams

**Product benefits**

- + Soft seams
- + High texturized character
- + Suitable for garment dyeing
- + Optimum engineered extension
- + Use of particularly fine needle sizes possible



| No./Tkt. | dtex   | Needle               | Make-up  | Code   |
|----------|--------|----------------------|----------|--------|
| 160      | 180(1) | NM 65 - 70 / 9 - 10  | 5,000 m  | 713368 |
|          |        |                      | 10,000 m | 713210 |
| 120      | 270(3) | NM 70 - 80 / 10 - 12 | 5,000 m  | 713244 |
| 80       | 380(1) | NM 70 - 90 / 10 - 14 | 5,000 m  | 713422 |



# Gütermann E

for overlock seams

**Material / Construction** 100 % polyester / Textured multifilament

**Recommended application** Overlock, safety & coverstitch seams

**Product benefits**

- + Soft seams
- + High texturized character
- + Very soft and dense overedge coverage
- + Needle and looper thread suitability
- + Optimum engineered extension



|                 | No./Tkt. | dtex   | Needle               | Make-up  | Code   |
|-----------------|----------|--------|----------------------|----------|--------|
| Gütermann E 121 | 240      | 120(1) | NM 60 - 65 / 8 - 9   | 10,000 m | 715298 |
|                 |          |        |                      | 30,000 m | 715280 |
| Gütermann E 151 | 160      | 190(1) | NM 65 - 70 / 9 - 10  | 10,000 m | 715328 |
|                 |          |        |                      | 24,000 m | 715310 |
| Gütermann E 382 | 80       | 380(2) | NM 70 - 90 / 10 - 14 | 6,000 m  | 730815 |
|                 |          |        |                      | 12,000 m | 715301 |



# Perma Core® Ultimate

for particularly fine seams

|                                |                                                                                                                                                                                                                                                                     |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Material / Construction</b> | 100 % polyester / Corespun, compact spun                                                                                                                                                                                                                            |
| <b>Recommended application</b> | Closing, decorative, overlock & safety seams                                                                                                                                                                                                                        |
| <b>Product benefits</b>        | <ul style="list-style-type: none"> <li>+ Fine thread cross-section for particularly smooth seams</li> <li>+ Pucker-free seams</li> <li>+ Excellent performance on automatic sewing machines</li> <li>+ Optimum engineered extension</li> <li>+ Very even</li> </ul> |



| No./Tkt. | dtex   | Needle             | Make-up | Code   |
|----------|--------|--------------------|---------|--------|
| 180      | 160(2) | NM 60 - 65 / 8 - 9 | 5,000 m | 709011 |



# Perma Core®

for highly stressed seams

|                                |                                                                                                                                                                                                                               |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Material / Construction</b> | 100 % polyester / Corespun                                                                                                                                                                                                    |
| <b>Recommended application</b> | Closing, decorative, overlock, safety & coverstitch seams, straight button holes, eyelet button holes with/without gimp                                                                                                       |
| <b>Product benefits</b>        | <ul style="list-style-type: none"> <li>+ Matt finish</li> <li>+ Durable, robust seams</li> <li>+ High tear resistance</li> <li>+ Excellent performance on automatic sewing machines</li> <li>+ High rub resistance</li> </ul> |



| No./Tkt. | dtex    | Needle                 | Make-up | Code   |
|----------|---------|------------------------|---------|--------|
| 120      | 240(2)  | NM 70 - 80 / 10 - 12   | 1,000 m | 708960 |
|          |         |                        | 5,000 m | 708961 |
| 75       | 400(2)  | NM 80 - 100 / 14 - 18  | 5,000 m | 708941 |
| 50       | 600(2)  | NM 90 - 110 / 12 - 16  | 5,000 m | 708931 |
| 36       | 800(2)  | NM 100 - 120 / 16 - 19 | 5,000 m | 708921 |
| 27       | 1050(2) | NM 110 - 130 / 18 - 21 | 5,000 m | 708911 |
| 18       | 1600(4) | NM 160 - 180 / 23 - 24 | 2,500 m | 708981 |



# Anecot® Plus

for optimal dyeability in garment dyeing

|                                |                                                                                                                                                                                                                                                             |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Material / Construction</b> | 100 % cotton / Spun, long fibre                                                                                                                                                                                                                             |
| <b>Recommended application</b> | Closing, decorative & overlock seams                                                                                                                                                                                                                        |
| <b>Product benefits</b>        | <ul style="list-style-type: none"> <li>+ Suitable for garment dyeing</li> <li>+ Optimum/Excellent dyeability</li> <li>+ Combed, gassed and mercerised cotton</li> <li>+ Soft seams</li> <li>+ Excellent performance on automatic sewing machines</li> </ul> |



|                   | No./Tkt. | dtex    | Needle                 | Make-up  | Code   |
|-------------------|----------|---------|------------------------|----------|--------|
| Anecot® Plus 50/3 | 90       | 350(3)  | NM 80 - 90 / 12 - 14   | 10,000 m | 705804 |
| Anecot® Plus 30/3 | 50       | 600(3)  | NM 90 - 110 / 14 - 18  | 5,000 m  | 705803 |
| Anecot® Plus 24/3 | 40       | 750(3)  | NM 110 - 120 / 18 - 19 | 5,000 m  | 705802 |
| Anecot® Plus 16/3 | 25       | 1100(3) | NM 120 - 140 / 19 - 22 | 3,000 m  | 705801 |
| Anecot® Plus 12/4 | 18       | 1500(4) | NM 140 - 160 / 22 - 23 | 2,000 m  | 705800 |



# Lyocell

for garment dyeing

|                                |                                                                                                                                                                        |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Material / Construction</b> | 100 % Tencel® / Spun                                                                                                                                                   |
| <b>Recommended application</b> | Closing, decorative & overlock seams                                                                                                                                   |
| <b>Product benefits</b>        | <ul style="list-style-type: none"> <li>+ Suitable for garment dyeing</li> <li>+ Soft seams</li> <li>+ Biodegradable</li> <li>+ Optimum engineered extension</li> </ul> |

| No./Tkt. | dtex   | Needle                | Make-up | Code   |
|----------|--------|-----------------------|---------|--------|
| 120      | 250(2) | NM 70 - 80 / 10 - 12  | 5,000 m | 748900 |
| 70       | 400(3) | NM 90 - 100 / 14 - 16 | 5,000 m | 748897 |



# Elastic

for smocking seams

**Material / Construction** 64 % polyester / 36 % polyurethane / Wrapped yarn

**Recommended application** Special sewing machines with cover thread or additional thread

**Product benefits**

- + Special thread with exceptional elasticity
- + For smocking effects
- + Uniform wrapping of the elastic core thread

| No./Tkt. | dtex | Needle                 | Make-up | Code   |
|----------|------|------------------------|---------|--------|
| 25       | 1300 | NM 100 - 110 / 16 - 18 | 1,000 m | 724017 |
| 15       | 1900 | NM 100 - 130 / 16 - 21 | 1,000 m | 784419 |



# Zwibond

for particularly robust seams

|                                |                                                                                                                                                                                                                                                                          |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Material / Construction</b> | 100 % polyamide 6.6 / Continuous filament, innerbonded                                                                                                                                                                                                                   |
| <b>Recommended application</b> | Closing & decorative seams                                                                                                                                                                                                                                               |
| <b>Product benefits</b>        | <ul style="list-style-type: none"> <li>+ No untwisting thanks to inner bonding</li> <li>+ Reliability on automatic sewing machines</li> <li>+ Very high tear resistance</li> <li>+ Optimum engineered extension</li> <li>+ Suitable for 2-needle applications</li> </ul> |

| No./Tkt. | dtex    | Needle                 | Make-up | Code   |
|----------|---------|------------------------|---------|--------|
| 60       | 500(3)  | NM 90 - 100 / 14 - 16  | 6,000 m | 713074 |
| 40       | 750(3)  | NM 90 - 110 / 14 - 18  | 4,000 m | 713066 |
| 30       | 1000(3) | NM 110 - 130 / 18 - 21 | 3,000 m | 713058 |
| 20       | 1500(3) | NM 120 - 140 / 19 - 22 | 2,000 m | 713040 |
| 13       | 2300(3) | NM 140 - 180 / 22 - 24 | 1,300 m | 713031 |



# Amifil

for particularly robust seams

|                                |                                                                                                                                                                                                                                             |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Material / Construction</b> | 100 % polyamide 6.6 / Continuous filament                                                                                                                                                                                                   |
| <b>Recommended application</b> | Closing & decorative seams                                                                                                                                                                                                                  |
| <b>Product benefits</b>        | <ul style="list-style-type: none"> <li>+ Very high tear resistance</li> <li>+ Reliability on automatic sewing machines</li> <li>+ Smooth thread surface</li> <li>+ Optimum engineered extension</li> <li>+ Durable, robust seams</li> </ul> |

| No./Tkt. | dtex    | Needle                 | Make-up | Code   |
|----------|---------|------------------------|---------|--------|
| 60       | 450(3)  | NM 90 - 100 / 14 - 16  | 6,000 m | 709131 |
| 40       | 700(3)  | NM 90 - 110 / 14 - 18  | 4,000 m | 709121 |
| 20       | 1350(3) | NM 120 - 140 / 19 - 22 | 2,000 m | 709101 |
| 13       | 2100(3) | NM 140 - 180 / 22 - 24 | 1,300 m | 709090 |



# Anebraid®

for striking decorative seams

**Material / Construction** 100 % polyester / Continuous filament, braided

**Recommended application** Closing & decorative seams, special sewing machines with cover thread or additional thread

**Product benefits**

- + Can be used as needle thread and gimp threads
- + Very high tear resistance
- + High rub resistance
- + Brilliant appearance



| Ø   | dtex | Needle                 | Make-up | Code   |
|-----|------|------------------------|---------|--------|
| 1,0 | 4800 | NM 200 - 230 / 25 - 26 | 800 m   | 709032 |



# Calora UV

for UV-resistant seams

**Material / Construction** 100 % polyester / Continuous filament

**Recommended application** Closing & decorative seams

**Product benefits**

- + High tear resistance
- + Optimal UV resistance
- + Optimal seawater resistance
- + Very high colour fastness
- + Good weather resistance



| No./Tkt. | dtex    | Needle                 | Make-up | Code   |
|----------|---------|------------------------|---------|--------|
| 40       | 750(3)  | NM 90 - 110 / 14 - 18  | 4,000 m | 583774 |
| 30       | 1000(3) | NM 110 - 130 / 18 - 21 | 3,000 m | 583766 |
| 20       | 1500(3) | NM 120 - 140 / 19 - 22 | 2,000 m | 583758 |
| 15       | 2000(3) | NM 140 - 160 / 22 - 23 | 1,500 m | 583740 |



# Solbond

for UV-resistant seams

**Material / Construction** 100 % polyester / Continuous filament, outerbonded

**Recommended application** Closing & decorative seams

**Product benefits**

- + High tear resistance
- + Very high rub resistance
- + Optimal UV resistance
- + Optimal seawater resistance
- + Very high colour fastness

| No./Tkt. | dtex    | Needle                 | Make-up | Code   |
|----------|---------|------------------------|---------|--------|
| 40       | 750(3)  | NM 90 - 110 / 14 - 18  | 3,000 m | 583588 |
| 30       | 1000(3) | NM 110 - 130 / 18 - 21 | 2,500 m | 583570 |
| 20       | 1500(3) | NM 120 - 160 / 19 - 23 | 1,500 m | 583561 |
| 10       | 2500(3) | NM 160 - 230 / 23 - 26 | 1,000 m | 583553 |



# Sunstop®

## for UV-resistant seams

|                                |                                                                                                                                                                                                                           |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Material / Construction</b> | 100 % polyester / Continuous filament, outerbonded                                                                                                                                                                        |
| <b>Recommended application</b> | Closing & decorative seams                                                                                                                                                                                                |
| <b>Product benefits</b>        | <ul style="list-style-type: none"> <li>+ High tear resistance</li> <li>+ Very high rub resistance</li> <li>+ Optimal UV resistance</li> <li>+ Optimal seawater resistance</li> <li>+ Very high colour fastness</li> </ul> |

| No./Tkt. | dtex    | Needle                 | Make-up                | Code   |
|----------|---------|------------------------|------------------------|--------|
| 40       | 700(3)  | NM 90 - 110 / 14 - 18  | 3,270 yds<br>= 2,990 m | 709170 |
| 30       | 900(3)  | NM 110 - 130 / 18 - 21 | 2,100 yds<br>= 1,920 m | 709171 |
|          |         |                        | 4,200 yds<br>= 3,840 m | 709175 |
| 20       | 1350(3) | NM 120 - 140 / 19 - 22 | 1,350 yds<br>= 1,234 m | 709172 |
|          |         |                        | 2,700 yds<br>= 2,468 m | 709176 |
| 15       | 2100(3) | NM 140 - 160 / 22 - 23 | 1,900 yds<br>= 1,737 m | 709173 |



# Anesafe®

## for heat resistant seams

|                                |                                                                                                                                                                                                                                                                  |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Material / Construction</b> | 100 % meta-aramide Nomex® / Spun, short fibre                                                                                                                                                                                                                    |
| <b>Recommended application</b> | Closing, decorative & safety seams                                                                                                                                                                                                                               |
| <b>Product benefits</b>        | <ul style="list-style-type: none"> <li>+ Short-term high-temperature-resistant at approx. 360°C</li> <li>+ Flame retardant and self-extinguishing</li> <li>+ Non-melting</li> <li>+ Good resistance to chemicals</li> <li>+ Very high tear resistance</li> </ul> |



|              | No./Tkt. | dtex   | Needle                 | Make-up | Code   |
|--------------|----------|--------|------------------------|---------|--------|
| Anesafe® 120 | 120      | 270(2) | NM 80 - 90 / 12 - 14   | 5,000 m | 705703 |
| Anesafe® 75  | 75       | 400(3) | NM 90 - 100 / 14 - 16  | 700 m   | 705714 |
|              |          |        |                        | 5,000 m | 705702 |
| 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 K

## for heat resistant seams

|                                |                                                                                                                                                                                                                                                                  |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Material / Construction</b> | 100 % meta-aramide Nomex® / Spun, long fibre                                                                                                                                                                                                                     |
| <b>Recommended application</b> | Closing, decorative & safety seams                                                                                                                                                                                                                               |
| <b>Product benefits</b>        | <ul style="list-style-type: none"> <li>+ Short-term high-temperature-resistant at approx. 360°C</li> <li>+ Flame retardant and self-extinguishing</li> <li>+ Non-melting</li> <li>+ Good resistance to chemicals</li> <li>+ Very high tear resistance</li> </ul> |



|                 | 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 / 16 - 18 | 3,000 m | 701342 |



# Gütermann K AR

for heat resistant seams

|                                |                                                                                                                                                                                                                                                                  |  |  |  |  |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| <b>Material / construction</b> | 100 % meta-aramide / Spun, Short fibre                                                                                                                                                                                                                           |  |  |  |  |
| <b>Recommended application</b> | Closing, decorative & safety seams                                                                                                                                                                                                                               |  |  |  |  |
| <b>Product benefits</b>        | <ul style="list-style-type: none"> <li>+ Short-term high-temperature-resistant at approx. 360°C</li> <li>+ Flame retardant and self-extinguishing</li> <li>+ Non-melting</li> <li>+ Good resistance to chemicals</li> <li>+ Very high tear resistance</li> </ul> |  |  |  |  |



|                    | No./Tkt. | dtex   | Needle                 | Make-up | Code   |
|--------------------|----------|--------|------------------------|---------|--------|
| Gütermann K AR 403 | 70       | 400(3) | NM 90 - 100 / 14 - 16  | 5,000 m | 771685 |
| Gütermann K AR 753 | 40       | 750(3) | NM 100 - 110 / 16 - 18 | 3,000 m | 777918 |



# Gütermann L

for heat resistant seams

|                                |                                                                                                                                                                                                                                                                    |  |  |  |  |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| <b>Material / Construction</b> | 100 % meta-aramide Nomex® /<br>Continuous filament (L753, L1503) /<br>Continuous filament, outerbonded (L1501)                                                                                                                                                     |  |  |  |  |
| <b>Recommended application</b> | Closing, decorative & safety seams                                                                                                                                                                                                                                 |  |  |  |  |
| <b>Product benefits</b>        | <ul style="list-style-type: none"> <li>+ Short-term high-temperature-resistant at approx. 360°C and permanently at 260°C</li> <li>+ Flame retardant and self-extinguishing</li> <li>+ Very high tear resistance</li> <li>+ Good resistance to chemicals</li> </ul> |  |  |  |  |



|                  | 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 |
| Gütermann L 1501 | 20       | 1500(1) | NM 120 - 140 / 19 - 22 | 600 m   | 703443 |
|                  |          |         |                        | 2,000 m | 703427 |



# Acero

for extremely heat-resistant seams

|                                |                                                                                                                                                                                                                                                                                                        |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Material / Construction</b> | Stainless steel, para-aramide (Kevlar®) / Wrapped yarn                                                                                                                                                                                                                                                 |
| <b>Recommended application</b> | Closing seams                                                                                                                                                                                                                                                                                          |
| <b>Product benefits</b>        | <ul style="list-style-type: none"> <li>+ Very high heat resistance up to approx. 700°C under mechanical load and up to approx. 1,000°C without mechanical load</li> <li>+ Steel wire core with Kevlar wrapping</li> <li>+ Very high tear resistance</li> <li>+ Good resistance to chemicals</li> </ul> |

| No./Tkt. | dtex | Needle                 | Make-up | Code   |
|----------|------|------------------------|---------|--------|
| 30       | 1040 | NM 100 - 140 / 16 - 22 | 2,500 m | 733488 |
| 15       | 2100 | NM 130 - 150 / 21 - 23 | 2,500 m | 733484 |



# Aneguard using Kevlar®

for highly heat-resistant seams

|                                |                                                                                                                                                                                                                                                                                                             |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Material / Construction</b> | 100 % para-aramide Kevlar® / Spun                                                                                                                                                                                                                                                                           |
| <b>Recommended application</b> | Closing, decorative & safety seams                                                                                                                                                                                                                                                                          |
| <b>Product benefits</b>        | <ul style="list-style-type: none"> <li>+ Good high-temperature resistance, as can withstand short term temperatures of up to approx. 420°C</li> <li>+ Flame retardant and self-extinguishing</li> <li>+ Non-melting</li> <li>+ Good resistance to chemicals</li> <li>+ Very high tear resistance</li> </ul> |

| No./Tkt. | dtex    | Needle                 | Make-up                | Code   |
|----------|---------|------------------------|------------------------|--------|
| 50       | 600(3)  | NM 110 - 130 / 18 - 21 | 6,000 yds<br>= 5,486 m | 705922 |
| 36       | 800(4)  | NM 120 - 140 / 19 - 22 | 6,000 yds<br>= 5,486 m | 705921 |
| 27       | 1050(4) | NM 130 - 140 / 21 - 22 | 3,000 yds<br>= 2,743 m | 705920 |



# Antistatik

for antistatic seams

|                                |                                                                                                                                                                                                                                            |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Material / Construction</b> | Steel, polyamide 6.6 / Corespun                                                                                                                                                                                                            |
| <b>Recommended application</b> | Closing & decorative seams                                                                                                                                                                                                                 |
| <b>Product benefits</b>        | <ul style="list-style-type: none"><li>+ Special thread that can meet the requirements of DIN EN ISO 20345 due to its linear resistance</li><li>+ Conductive seams, with low resistance for antistatic effect on protective shoes</li></ul> |

|                 | <b>No./Tkt.</b> | <b>dtex</b> | <b>Needle</b> | <b>Make-up</b> | <b>Code</b> |
|-----------------|-----------------|-------------|---------------|----------------|-------------|
| Antistatik 30/4 | 30              | 1000 (4)    | NM 130 - 150  | 3,500 m        | 582093      |
|                 |                 |             |               | 7,500 m        | 582255      |



# Poly/Poly SF

for silicone-free seams

|                                |                                                                                                                                                                             |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Material / Construction</b> | 100 % polyester, Corespun, silicon-free                                                                                                                                     |
| <b>Recommended application</b> | Closing seams                                                                                                                                                               |
| <b>Product benefits</b>        | <ul style="list-style-type: none"> <li>+ Excellent resistance to chemicals</li> <li>+ High moisture resistance</li> <li>+ Special thread for the filter industry</li> </ul> |

| No./Tkt. | dtex   | Needle                | Make-up  | Code   |
|----------|--------|-----------------------|----------|--------|
| 80       | 400(2) | NM 80 - 100 / 12 - 16 | 33,000 m | 585263 |



# Polypropylen SF

for acid and lye resistant seams

|                                |                                                                                                                                                                                           |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Material / Construction</b> | 100 % polypropylene / Continuous filament, silicon-free                                                                                                                                   |
| <b>Recommended application</b> | Closing seams                                                                                                                                                                             |
| <b>Product benefits</b>        | <ul style="list-style-type: none"> <li>+ Excellent resistance to chemicals</li> <li>+ High moisture resistance</li> <li>+ Silicone-free special thread for the filter industry</li> </ul> |

| No./Tkt. | dtex    | Needle                 | Make-up | Code   |
|----------|---------|------------------------|---------|--------|
| 40       | 750(2)  | NM 90 - 110 / 14 - 18  | 4,000 m | 711632 |
| 30       | 1050(3) | NM 110 - 130 / 18 - 21 | 2,500 m | 585157 |



# Polyacryl

for dry heat-resistant seams

|                                |                                                                                                                                                                                                              |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Material / Construction</b> | 100 % polyacrylic / Spun thread                                                                                                                                                                              |
| <b>Recommended application</b> | Closing seams                                                                                                                                                                                                |
| <b>Product benefits</b>        | <ul style="list-style-type: none"> <li>+ Good dry heat resistance</li> <li>+ Good resistance to chemicals</li> <li>+ Special thread for the filter industry</li> <li>+ Good hydrolysis resistance</li> </ul> |

| No./Tkt. | dtex    | Needle                 | Make-up | Code   |
|----------|---------|------------------------|---------|--------|
| 30       | 1000(3) | NM 110 - 130 / 18 - 21 | 3,000 m | 748889 |
|          |         |                        | 6,000 m | 777986 |



# PTFE

for UV-resistant seams

|                                |                                                                                                                                                                                                                                                                                |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Material / Construction</b> | 100 % polytetrafluorethylene (PTFE) / Continuous filament                                                                                                                                                                                                                      |
| <b>Recommended application</b> | Closing seams                                                                                                                                                                                                                                                                  |
| <b>Product benefits</b>        | <ul style="list-style-type: none"> <li>+ Very high tear resistance</li> <li>+ Very good heat resistance, short-term up to 300°C, permanent up to 250°C</li> <li>+ Good resistance to chemicals</li> <li>+ Optimal UV resistance</li> <li>+ Very high rub resistance</li> </ul> |

| No./Tkt. | dtex    | Needle                | Make-up | Code   |
|----------|---------|-----------------------|---------|--------|
| 30       | 1300(3) | NM 90 - 110 / 14 - 18 | 4,200 m | 724831 |



# WS

for water-soluble seams

|                                |                                                                                                                                                                                                                                                     |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Material / Construction</b> | 100 % polyvinyl alcohol (PVA) / Spun yarn, water-soluble                                                                                                                                                                                            |
| <b>Recommended application</b> | Basting or pre-tacking applications                                                                                                                                                                                                                 |
| <b>Product benefits</b>        | <ul style="list-style-type: none"> <li>+ Can be used like a regular sewing thread without alteration of the machines</li> <li>+ Dissolves on contact with water</li> <li>+ No chemicals desired</li> <li>+ Breaking strength &gt; 600 cN</li> </ul> |

| No./Tkt. | dtex   | Needle               | Make-up | Code   |
|----------|--------|----------------------|---------|--------|
| 120      | 250(2) | NM 70 - 80 / 10 - 12 | 5,000 m | 715492 |

## Complementary Products by A&E

|                   |    |
|-------------------|----|
| Polyester Threads | 23 |
| Cotton Threads    | 23 |

## 100% Polyester Threads

### Perma Spun®

100% polyester, Spun



| No./Tkt. | dtex   | Needle                | Make-up | Code   |
|----------|--------|-----------------------|---------|--------|
| 120      | 270(2) | NM 70 - 80 / 10 - 12  | 5,000 m | 705733 |
| 75       | 400(2) | NM 80 - 100 / 12 - 16 | 5,000 m | 705732 |
| 50       | 600(2) | NM 90 - 110 / 14 - 18 | 5,000 m | 705731 |

### Filan

100% polyester

Continuous filament



| No./Tkt. | dtex    | Needle                 | Make-up  | Code   |
|----------|---------|------------------------|----------|--------|
| 80       | 300(3)  | NM 70 - 90 / 10 - 14   | 15,000 m | 705632 |
|          |         |                        | 27,000 m | 705630 |
| 60       | 500(3)  | NM 90 - 100 / 14 - 16  | 20,000 m | 705643 |
| 40       | 700(3)  | NM 90 - 110 / 14 - 18  | 4,000 m  | 705620 |
|          |         |                        | 8,000 m  | 705622 |
| 30       | 900(3)  | NM 110 - 130 / 18 - 21 | 3,000 m  | 705610 |
| 20       | 1350(3) | NM 120 - 140 / 19 - 22 | 600 m    | 705601 |
|          |         |                        | 2,000 m  | 705600 |

### Wildcat Plus®

100% polyester

Textured multifilament



| No./Tkt. | dtex   | Needle                | Make-up  | Code   |
|----------|--------|-----------------------|----------|--------|
| 160      | 180(1) | NM 65 - 70 / 9 - 10   | 10,000 m | 705752 |
| 80       | 350(2) | NM 70 - 90 / 10 - 14  | 5,000 m  | 705751 |
|          |        |                       | 10,000 m | 705753 |
| 40       | 700(4) | NM 90 - 110 / 14 - 18 | 5,000 m  | 705750 |

## 100% Cotton Threads

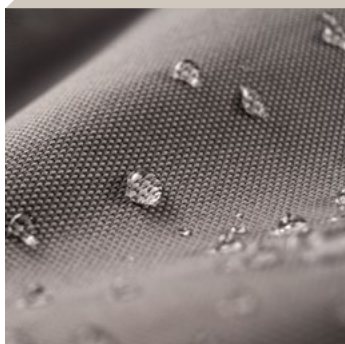
### Anecot®

100% cotton, Spun

|               | No./Tkt. | dtex    | Needle                 | Make-up  | Code   |
|---------------|----------|---------|------------------------|----------|--------|
| Anecot® 50(3) | 90       | 350(3)  | NM 80 - 90 / 12 - 14   | 10,000 m | 705994 |
| Anecot® 50(2) | 50       | 400(2)  | NM 90 - 110 / 14 - 16  | 10,000 m | 705993 |
| Anecot® 30(3) | 50       | 600(3)  | NM 90 - 110 / 14 - 18  | 5,000 m  | 705992 |
| Anecot® 24(3) | 40       | 750(3)  | NM 110 - 120 / 18 - 19 | 5,000 m  | 705991 |
| Anecot® 16(3) | 25       | 1100(3) | NM 120 - 140 / 19 - 22 | 3,000 m  | 705990 |

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seams  
so perfect