



# WORK-WEAR

Functional threads  
for more safety





More than anything else, work and protective apparel must be hard-wearing. Only the perfect seam withstands the toughest requirements.

#### SEWING THREADS FOR WORKWEAR

# FASHION MEETS FUNCTION

The perfect workwear? Provides optimal protection, fits perfectly – and even looks good. However, regardless of whether classic workwear, leasing or corporate wear, as well as personal protective equipment: the expectations for quality, functionality and comfort are especially high for workwear and protective clothing. The robust garments ultimately have to withstand a lot. They have to be longlasting and must convince through an appealing look.

Special fabrics require special seams. Seams where there can be no compromises. We have therefore developed, optimised and thoroughly tested extremely robust sewing threads in our laboratories. With our sewing threads for workwear we have set standards: not only a beautiful look can be achieved, but instead they primarily convince through their high degree of functionality and durability.

Depending on the field of application, the seams must fulfil special protective functions: whether being extremely tear- and abrasion resistant, resistant to heat, fire, chemicals or UV radiation. We have the right solution for all applications.



#### Like a second skin

Sensitive and protective cover at the same time - the human skin is our largest organ: it protects us from heat and cold, regulates our body temperature and allows us to perceive the world around us. Fabric protects the skin, and thus people. Workwear must therefore provide the highest degree of protection. It prevents accidents and reduces their consequences. For example, it keeps fire away, protects against electrical hazards or rebounds gunshots.

## OUR SOLUTIONS AT A GLANCE

### Our sewing threads for workwear

Uncompromisingly beautiful. But also uncompromisingly functional: modern workwear is allowed to look good – the demand for fashionable workwear is growing steadily. Safety is the priority. However, this doesn't exclude modern design and a high degree of wearing comfort. On the contrary: our workwear sewing threads not only score with a beautiful appearance, but especially convince through their functionality. Especially for leasing and corporate wear, robust sewing threads that withstand any kind of strains are important.



#### PERMA CORE®

**100% POLYESTER  
CORE SPUN**

Our highly tear- and abrasion resistant core spun thread made of 100% polyester is exceptionally well-suited for seams subject to great stresses: Perma Core® is ideal for the production of workwear that is subjected to enzymatic and chemical treatments, is also suitable for multi-directional sewing and comes in a wide range of colours.



#### D-CORE®

**POLYESTER / COTTON  
CORE SPUN**

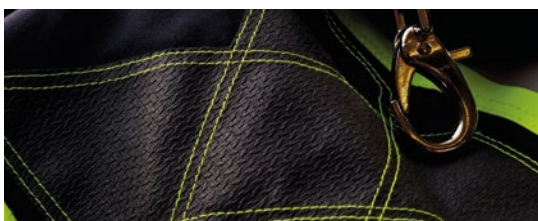
Its core, made of polyester, makes our D-Core® core spun thread extraordinarily tear-resistant. The cotton wrap enables high sewing speeds. D-Core® is exceptionally well-suited for workwear that is subjected to enzymatic and chemical treatments.



#### WILDCAT PLUS®

**100% POLYESTER  
TEXTURED**

Wildcat Plus® is a textured sewing thread of 100 % polyester. It is perfectly suited for soft cutting edge coverage and serging. We have specifically developed this soft sewing thread for a pleasant wearing comfort. Thus, it is ideally suited for seams that come into direct contact with the skin.



#### MORE SOLUTIONS

**Perma Core® FR** is a core spun thread of 100 % polyester with an inherent flame-retarding protection. When used, this sewing thread guarantees excellent flame retardancy due to limited flame spread. It also doesn't wash out.

**Anefil Reflector™** for decorative and reflective overlock and overedging seams. The reflective core reflects the light back to the light source and thus ensures improved visibility.

**Super Brite Polyester®** with brilliant colours for enduring embroidery.

## Play it safe with personal protective equipment!



Personal protective equipment (PPE) requires a broad spectrum of functional solutions. Optimal sewability, tear- and abrasion resistance, an anti-static function, as well as a very high heat-resistance are particularly important properties. These are complemented by special requirements for safety and protection, for example, cut-resistant and bulletproof clothing, heat- and flame resistant apparel, as well as ABC protective clothing.

### For cut-resistant and bulletproof workwear

When it comes to cut-resistant and bulletproof workwear, it is important that the materials offer a high level of wearing comfort, while at the same time possessing cut-resistant properties. Splinter protection and a high degree of tear- and abrasion resistance are also required.

With this in mind, we recommend our special sewing thread **Aneguard using Kevlar®**, which thanks to its high strength, is ideal for this use. Manufactured of 100% spun p-aramid, it can withstand up to 490 °C for short periods, doesn't melt and is self-extinguishing. This



makes it ideal for sewing gloves, leg protection and bulletproof apparel, such as military and police vests, as well as protective clothing.

### For heat and flame-protective apparel

Wherever reliable performance and safety are the priorities, our aramid threads are the best choice. They are used when sewing threads must perform mainly due to high heat resistance, low flammability and good chemical resistance against light acids and alkalis. Aramid fibres do not melt. They are self-extinguishing and their decomposition temperature starts at over 360 °C.

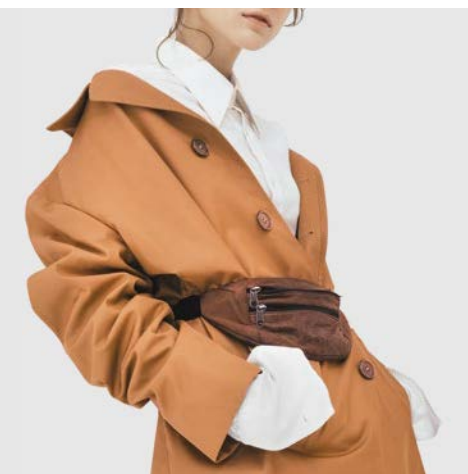
#### OUR RANGE OF ARAMID FIBRES:

- + **Gütermann L** - continuous filament
- + **Gütermann K** - spun, long staple
- + **Anesafe®** - spun, short staple
- + **Salta K** - spun, short staple
- + **Aneguard using Kevlar®** - spun, short staple

### Solution for anti-static shoes:

We have developed our **Antistatik** sewing threads especially for anti-static shoes. Due to the conductive components, static charges are prevented and electrical currents are diverted.





SEAMS UNLIMITED

# A SPECIALISED ALL-ROUNDER

**The name Gütermann has stood for premium quality for over 150 years in the textile industry, that means perfect seams – through uniformity, a silky shine, a smooth texture, tear resistance and maximum flexibility. To offer our customers sustainable support, we also need to be flexible in how we approach the requirements of today's market and current fashion trends.**

We continuously adapt our products to meet these requirements. We produce sewing thread products for the consumer, industry and automotive sectors which are precisely designed to meet the needs of our customers. They are carefully developed by our textile specialists so that they always have the same quality. When manufacturing processes reach their limits, we take things to the next level, we optimise our technologies and keep up with the latest developments in research. That's how innovation happens. And the quality promise of A&E Gütermann remains.

Your perfect seam starts with us. In the past, workers worked in isolation on their specific craft. In our plants in Germany and Slovenia, highly specialised textile technologists, engineers, chemists and dyers work together to ensure that all the details are coordinated.

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## **Saving water in the textile industry**

A&E Gütermann aims to reduce water consumption in all of its sites worldwide, many of our plants process wastewater into drinking water. In addition, a hydropower plant provides the water supply for all our production needs in Gutach im Breisgau.

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## **A strong connection – Around the world**

Since our merger as A&E Gütermann in 2014, we support your value chain worldwide. The smooth flow of materials and information minimizes your costs and creates transparency.



