

Filzfabrik
Gustav Neumann GmbH Braunschweig



Felt, naturally good!





Felt - A real “all-rounder”!

Felt has been a natural, renewable raw material for thousands of years. It protects objects, insulates against heat and cold, protects against dust and dirt, and reduces vibrations and noise. Felt is temperature-resistant and UV-stable. It is also non-flammable and gentle on the skin. Felt is not sensitive to acids or bases, and is humidity-regulating. Felt is resilient to static loading and can control vibrations.

- UV-stable
- Resilient to static loading
- Elastic
- Noise-absorbing
- Insulates against cold and heat
- Not sensitive to acids
- Temperature-resistant
- Catalysing properties (formaldehyde)
- Flame-retardant or non-flammable
- Moisture-storing
- Hydrophobic
- Transports fluids (capillary effect)
- Filters
- Water-resistant
- Compostable
- Renewable material



Sustainability

Over 90% of our products are based on natural, renewable fibres: sheep wool, animal hair and viscose. Our raw materials form the basis for a range of felt grades.

Products that include felt are thus present in almost all commercial sectors and there is hardly a single area of our lives where felt products cannot be found – even if they are not immediately visible!

There are almost no limitations to the functions that felt can fulfill!





Production methods

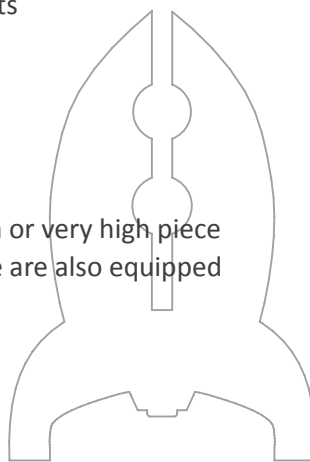
Many different production processes are now available, some of which can be combined. Technical felts have traditionally been divided into fulled felts and needle felts. The production processes for fulled felts and needle felts are fundamentally different. The method of manufacture for fulled felts has not changed significantly for centuries. Our company has been supplying conventional wool felts and needle felts for technical applications for decades. Our diverse range of products also includes fleece materials, filter fleeces, mixed-fibre fleeces, many other technical fabrics, leather and synthetic leather.

Technical felts are used in wiping, braking, dampening, sealing, filtering, cushioning, polishing, cleaning, suction, storage, transferral of liquids or in rubbing. All in accordance with the specific wishes of our clients!

Our production range includes both technical felts and felt products:

- Shaped and punched parts based on drawings
- Felt hoses, sewed/stuck for anti-roll bars, guide bars, steering or shift linkages, or as protection on rollers on transport systems
- Felt strips, felt rings and wicks
- Felt polishing and grinding disks, polishing points
- Felt squeegees
- Felt shapes and
- Materials in sheet and roll form

Our production capacities allow us to achieve high or very high piece numbers within short delivery times. However, we are also equipped to deal with low and very small quantities.



Fulled felt

Conventional wool felt is carded, felted using steam, pressure and circular agitation, and then fulled. Special textile machinery is used here. Our wool felts contain up to 100% wool, or may also contain other animal hair from cattle. Viscose fibres may also be included.

Needle felt

Needle felt made from wool felt are also carded, but are then worked on by needles in a needle punch machine to create their bound structure.

Fleece materials/non-wovens

The term 'fleece materials' often refers to materials made from synthetic fibres. These materials are manufactured in pure form from PES, PP, aramid or nomex fibres using various production methods. Instead of needle processing, chemical or thermal bonds can also be created.





Felt products - sector-specific!

Our technical felts and felt products are used in many different sectors and branches of industry. The diversity in terms of various applications is just as broad.

We never tire of emphasising that every industry and each customer is equally important to us! Every application has its own particular characteristics, and felt is suitable for a wide range of uses thanks to its numerous favourable properties.

Technical felts are still a match for modern plastics, foams, flock materials or rubber. Indeed, felts have better product properties for many areas of application:

The art of sealing!

Sealing rings, bands and strips are used in bearing and drive technology – from pillow block frames with standardised rings, right through to axle-bearing strips that serve as dust seals on goods wagons.

Naturally self-adhesive!

Double-sided adhesive tape systems with paper fleece and resin-like adhesives are compostable and biodegradable. Felt products with these features can be found underneath chairs and tables and in drawers in furniture.

The range of individual products is just as diverse as the applications themselves are. We now have over 30,000 products in our IT systems that can be reproduced at any time.

Individual customer-oriented solutions, flexible production processes, short delivery times and high-quality products ...

... all these things are valued by our clients – worldwide!

Product diversity for ...

Vehicle construction
Industry
Energy industry
Furniture
Instrument-building
Medicine
Lifestyle





The company

“The Gustav Neumann felt production facility, which has been in existence in Braunschweig since 1874, produces and processes felts of all types for every conceivable purpose. The company specialises in technical felts such as sealing rings, sealing strips, felt strips for seal grooves, felt wicks, felt tubes, felt sleeves and other mass-production articles, whether punched, wrapped or cut.”

Special edition of the ‘Braunschweigische Landeszeitung’ newspaper from 1930.

This quote could still be used today in the same or similar form in a press release about technical felts and felt products. Felt is not necessarily a very well-known material, but it is used in many different sectors and applications.

Since the company was founded in Braunschweig in Germany in 1874, Filzfabrik Gustav Neumann GmbH has specialised in the processing of felt products alongside felt production. We are one of the leading companies in the felt production and processing industry. Our good reputation is well-known even outside of Europe. We are proud of our long-standing relationships with our clients and suppliers, which often go back decades.

Alongside the automotive industry, other vibrant sectors that we supply with customised technical felt products include the mechanical engineering industry in general, railway vehicle manufacturing, shipbuilding and yacht construction, technical distribution, the wood-working sector, and the furniture and musical instrument industries.

Innovation means finding solutions!
We are actively shaping the future – in a range of sectors.



Vehicle construction

Industry

Energy industry

Furniture

Instrument-building

Medicine

Lifestyle



Felt, naturally good ... and versatile!

Our technical felts and felt products are used in many different sectors and branches of industry. In fact, we supply so many industries that we are not able to list each one individually!

The versatility of felt as a material opens up unlimited functional and design potential for a wide range of areas of application.

We put these characteristics to good use in sectors such as vehicle construction, general industry, energy, furniture, musical instrument-building, medicine and lifestyle products.

Our long experience in this traditional craft trade serves as the foundation for innovative, modern production technologies and modern processing methods.

This puts us in an excellent position to be able to develop tailored solutions for our customers.

If you have any questions, please get in touch!

Felt, naturally good!

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