FIBER TECHNOLOGY

APPAREL

FLOORCOVERINGS

TECHNICAL TEXTILES

NONWOVENS

Pulcra Chemicals

The solution specialist
Pulcra Chemicals is a leading developer and manufacturer of innovative specialty chemicals for the fiber, textile and leather industries. Pulcra is creating added value for its customers by creating solutions that determine the look, touch and feel and adding functionality to our customers’ materials, delivered by our team of 300 engineers from our 13 locations across the globe.

We have more than 135 years of experience and partnering with customers. Pulcra is providing the industry with application and processing solutions for effects, sustainability and efficiency. Pulcra is headquartered in Geretsried (Munich), Germany. Pulcra is committed to safety, regulatory compliance and quality programs.

WELCOME TO PULCRA CHEMICALS!

HISTORY – IT ALL STARTED WITH HENKEL

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WELCOME TO PULCRA CHEMICALS!
Our experts are frontrunners throughout the world, with comprehensive chemical research and development expertise and process know-how from start to finish.

Our laboratory teams around the world work out practice-oriented solutions in order to find tailor-made solutions. We are where the customers need us.

PULCRA CHEMICALS MARKET SEGMENTS

TEXTILE
Auxiliaries for manufacturing of yarns and textile fabrics for sizing, pretreatment, dyeing, printing, softening, coating and finishing

FIBER
Auxiliaries for the manufacturing and processing of man-made fibers

LEATHER
Leather auxiliaries for all processes in the leather and fur industries

PERFORMANCE
Performance products for a wide variety of end-markets

CUSTOMIZED SOLUTIONS
Fiber manufacturers around the world appreciate the reliability of our spin finishes which are used for a broad range of applications, including highly specialized ones and those where customer-specific solutions are required.

A specialized product range is available for a wide range of applications:

- Apparel
- Technical Textiles
- Nonwovens
- Floorcoverings

HIGH PERFORMANCE FOR HIGH PERFORMERS
POLYAMIDE PRODUCTS

Textile/Apparel
With more than 50 years of experience in Nylon Spin Finishes Pulcra Chemicals offers products which combine good runnability with excellent dyeing performance. Our STANTEX product range offers lubricants for the production of partially oriented yarn (POY)/Draw Texture Yarn (DTY) for the production of Flat Yarn/Fully Drawn Yarn (FDY) through different process routes.

Technical Application
The production of High Tenacity Polyamide yarn requires spin finishes offering good performance during fiber manufacturing but also for the downstreaming and in the final application (e.g., Airbags, Tire Cord). STANTEX spin finishes are available for neat- and emulsion applications.

Floorcoverings
Polyamide yarns continue to be used in high value carpet applications. This is due to the superior properties of polyamide compared with other yarn types. STANTEX spin finishes are available for different bulked continuous filament (BCF) yarn types which are natural solution dyed and also for critical applications like automotive. Our product range offers spin finishes and components for the production of polyamide staple fibers.
**Textile/Apparel**

Polyester has been a preferred fiber for textile applications. Pulcra offers high performance spin finishes both for filament and staple fiber production.

**Technical Application**

The market for high tenacity polyester fibers has grown considerably, especially for tarps, seat belts, and tires, where they add durability and strength. Our product range offers not only spin finishes for high tenacity polyester and 1-step and 2-step-standard processes, but also rubber adhesion activators for yarn incorporated into tire cord and mechanical rubber goods applications. We also cover the growing demand of spin finishes matching FDA and EU Directives for food contact.

**Nonwovens**

PET fibers spunlace process: STANTEX® spin finishes are applicable for the production of polyester staple fibers which are bonded by hydroentanglement. The spin finishes exhibit low foam formation during the spunlacing process. These products are in compliance with CFR title 21 and EU 10/2011.

PET fibers carded nonwoven: STANTEX® spin finishes are suitable for the production of polyester staple fibers for carded nonwovens. They provide durable hydrophilic properties and are suitable for hygiene products such as diapers. The fibers have an excellent carding behavior.

**Floorcoverings**

Polyester is also a fiber of choice in carpet production due to its availability and also its resistance to food staining. Pulcra Chemicals offers approved auxiliaries both for the manufacturing of bulked continuous fiber and polyester staple fibers.
Due to its light weight and hydrophobicity polypropylene yarn is the material of choice for functional apparel. With our specialized STANTEX® spin finishes for the manufacturing of fine polypropylene partially oriented yarn (POY) we help you to produce flat, draw texture yarn (DTY), and air texture yarn (ATY) with excellent softness and comfort.

Technical Application
Polypropylene is the material of choice for many technical applications. STANTEX® spin finishes are available for filaments (CF) covering the whole denier range including spin finishes for food contact. Furthermore PULCRA CHEMICALS offers spin finishes for many different applications like geo textiles, tapes for packaging and others.

Floorcoverings
Polypropylene is the economical solution for many carpet applications. The biggest share is produced as bulk continuous fiber (BCF) yarn. Our STANTEX® spin finishes perform well on all machine types and for many applications including Soft Touch.

Tapes used as carpet backing, covered with STANTEX®, offer excellent performance regarding stitching forces.

Nonwovens – Polypropylene staple fiber:
Under the trade name STANTEX® Pulcra Chemicals offer a wide range of spin finishes for the production of staple fibers which are processed into nonwovens especially for hygiene end use. For these applications hydrophilic and durable hydrophilic silicone free and skin friendly spin finishes are available. The durable STANTEX® spin finishes provide low rewet and low multiple strike through and excellent run off values. The spin finishes provide good antistatic properties to the polyolefin fibers which results in good carding performance. There are also products available for bicomponent fibers of polypropylene / polyethylene (PP/PE) and polyethylene terephthalate / polyethylene (PET/PE). Pulcra Chemicals offers products with hydrophobic properties which impart softness. Pulcra Chemicals spin finish with active ingredients and skin friendly botanical extracts increase the value for the fiber producer and respond to the wellness trend in the market.

Nonwovens – Polypropylene staple fiber spun lane process:
STANTEX® spin finishes are applicable for the production of polypropylene staple fibers which are bonded by hydroentanglement. The spin finishes show low foam formation during the spunlace process. The products are in compliance with CFR title 21 and EU 10/2011.

Nonwovens – Polypropylene spunbond nonwoven:
Pulcra Chemicals offer spin finish types for the production of hydrophilic and permanent hydrophilic spunbond nonwovens. STANTEX® spin finishes are in compliance with CFR title 21 and EU 10/2011. The spin finishes are silicone free with excellent skin compatibility. They are ideal for hygiene application like top sheet materials for baby diaper, feminine care, and adult incontinence products. STANTEX® spin finishes provide very low rewet, excellent run off and low multiple strike through values.

Nonwovens – Polypropylene staple fibers for geotextiles:
STANTEX® type spin finishes are suitable for the production of staple fibers which are processed into geotextile nonwovens.
POLYACRYLIC PRODUCTS

Pulcra Chemicals offers excellent spin finishes like STANTEX® and KATAX® for polyacrylic staple fibers and tow manufacturing for dry and wet spinning.

Pulcra spin finishes offer the balance of friction and cohesion for each process – ring spinning, open-end spinning, and tow converting. The use of selected STANTEX® finishes helps to adjust the final softness or scroopiness. The application is by immersion bath, kiss roll or by spraying.

STANTEX® and KATAX® finishes help to optimize yarn evenness in thin and thick places and minimize neps.

Pulcra Chemicals provides products with excellent emulsion stability.
CELLULOSIC PRODUCTS

Textile/Apparel – Spin Finishes:
High flexibility and easy handling due to single product concepts. Balanced frictional and antistatic properties allow high fiber spinning speeds without compromising the yarn quality. Outstanding yarn uniformity with very low yarn defects are achieved.

High processing flexibility allowing the fiber being processed on different spinning technologies. Concepts can be combined with additional components in order to improve specific properties.

Applicable after fiber dyeing processes in order to allow a proper spinning performance. Special product concepts impart a softer touch to the fiber without compromising the spinning performance. Modifiers of viscosity allow a better and cleaner spinning. Due to higher drawing ratios, higher fiber tenacity levels can be achieved.
FIBERGLASS PRODUCTS

Pulcre Chemicals is a leading supplier of cationic lubricant, for processing fiberglass.

Our goal has been to specialize in developing and supplying products to the fiberglass industry in the area of fiberglass protection, lubrication, and additives. We provide our customers with solutions to their everyday processing problems and enable them to manufacture a world class product.
Pulcra Chemicals has traditionally supplied a comprehensive and reliable range of products for processing wool in all stages of its development from fiber to finished fabric. In addition to global market leaders such as SELBANA®, which is used in the manufacture of worsted yarns, a number of highly specialized products have a fixed place in the product range:

**Wool top making/ worsted spinning**

Pulcra Chemicals offers effective lubricants like SELBANA®, KATAX®, SILKOL® or SPREITAN® to be applied before carding and combing of scoured wool.

**Woollen-/ semi worsted spinning**

By the application of Pulcra Chemicals auxiliaries high processing performance is achieved, even when sensitive fibers like merino wool, alpaca, llama, cashmere, mohair, silk and their blends with synthetic fibers are processed. SELBANA®, KATAX®, SILKOL® or SPREITAN® formulations help to optimize yarn evenness, yield and minimize neps, thin/thick places, waste and dust formation.

**Needle punch operation**

Efficient lubricating with SELBANA®, KATAX® and/or SILKOL® in needle felt operation is important for effective carding and downstream needling. Excessive needle wear and breakage and damaged fiber are minimized in the production of e.g. geo-textile, artificial leather, carpets and felts for the use in automotive application. For automotive end use Pulcra Chemicals offers well approved lubricants with low VOC and FOG values.

**Twisting/ coning**

The application of SPREITAN® in twisting helps to reduce dust and fiber fly by reducing the fiber to metal friction.

Pulcra Chemicals provides coning oils based on mineral oil and synthetic lubricants. Due to their excellent lubricity and wash off properties they are widely used in Polyamide and Polyester industries.