

FIBER & TEXTILE AUXILIARIES

# SPIN FINISHES FOR BCF YARNS

Reliable performance on polyester,  
polyamide and polypropylene



ZSCHIMMER & SCHWARZ



## PRODUCT LIST

<b>PRODUCT NAME</b>	<b>PAGE</b>
CONOLAN CP 120	06
FASAVIN CA 140	06
FASAVIN CA 105	06
FASAVIN CP 1080	06
FASAVIN CP 1002	06
FASAVIN CP 170	06
FASAVIN CP 1085	07
FASAVIN CS 20	07
FASAVIN CS 1810	07
FASAVIN WR 1001	07

## ABBREVIATIONS

<b>BCF</b>	Bulked continuous filament
<b>PA</b>	Polyamide
<b>PET</b>	Polyester
<b>PP</b>	Polypropylene
<b>SDN</b>	Spun-dyed nylon

# CONTENTS

**05 REQUIREMENTS OF MODERN CARPET YARN PRODUCTION**

**06 SPIN FINISHES FOR POLYPROPYLENE CARPET YARNS**

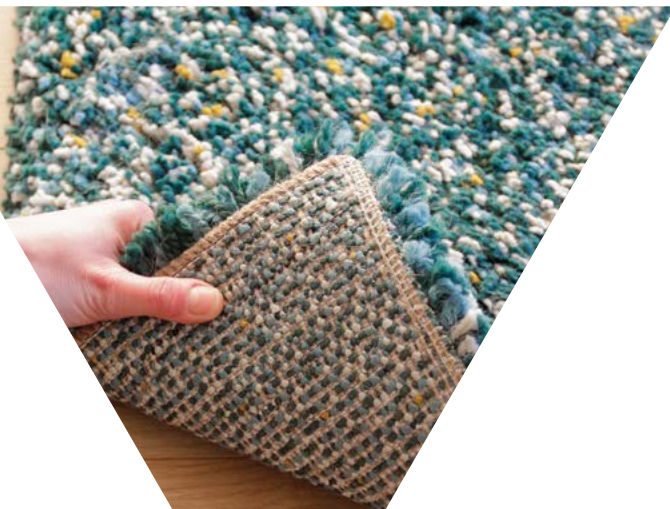
**06 SPIN FINISHES FOR POLYAMIDE CARPET YARNS**

**07 SPIN FINISHES FOR POLYESTER CARPET YARNS**

**07 SPECIALTY SPIN FINISHES**

**09 TECHNICAL SERVICE & APPLICATION EXPERTISE**

**11 CHEMISTRY TAILOR-MADE**





# REQUIREMENTS OF MODERN CARPET YARN PRODUCTION

Carpet yarns must withstand demanding conditions throughout their lifetime: They need to be durable, resilient under heavy foot traffic and easy to maintain. Compared to many other textile yarns, carpet yarns are typically very thick – often 20 to 30 times thicker than typical apparel yarns.

Today, many carpets are produced from synthetic BCF yarns (bulked continuous filament), particularly in machine-made tufted carpets. These continuous filament yarns provide excellent durability and do not generate lint during use.

## SPIN FINISHES – FROM FIBER TO CARPET PERFORMANCE

Producing BCF yarns requires stable processes and precisely controlled fiber properties. From spinning to the final carpet application, manufacturers need to ensure consistent quality, efficient processing and reliable product performance. Spin finishes play a key role in achieving these requirements. Applied during fiber production, spin finishes influence friction, cohesion and fiber handling during spinning, drawing and texturing. At the same time, they contribute to defining the surface characteristics and durability of the final yarn. With carefully tailored spin finish formulations, manufacturers can achieve stable production processes and consistent carpet yarn quality.

## TAILORED TO YOUR PROCESS

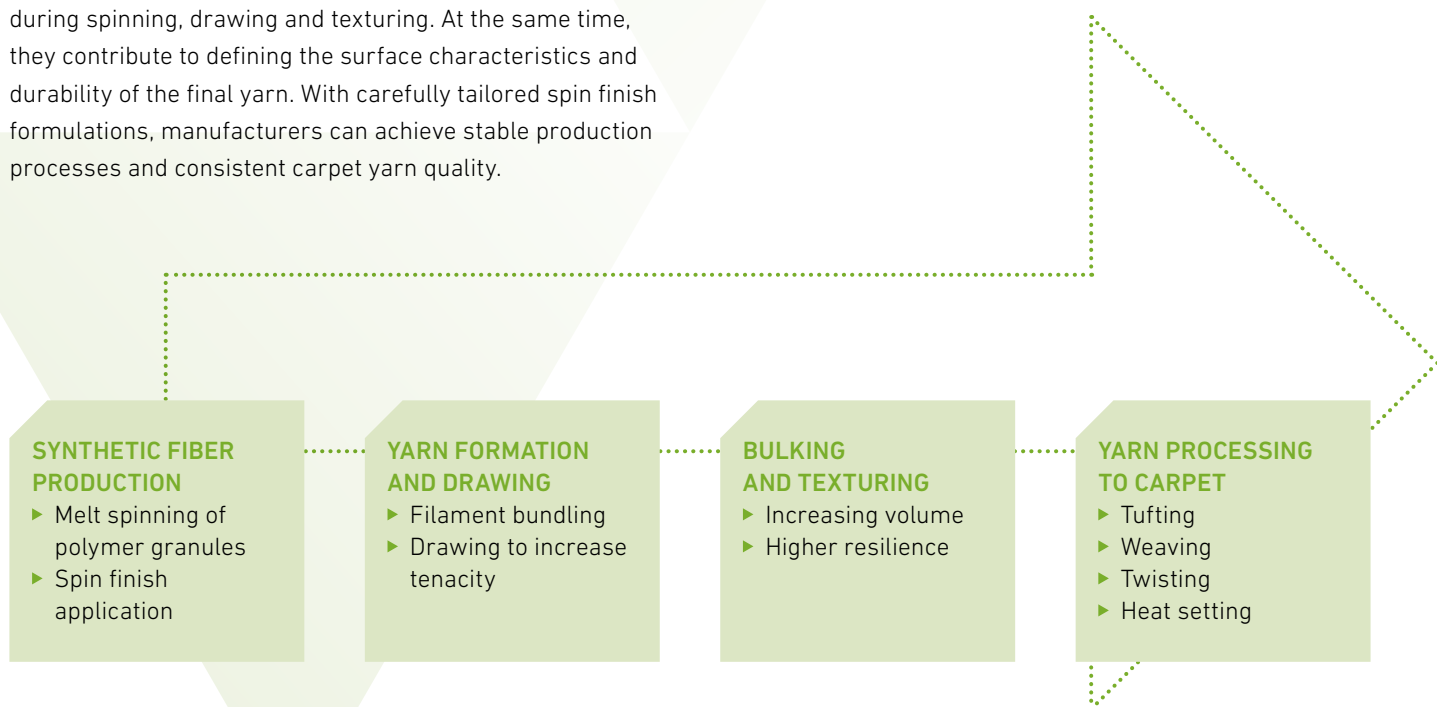
Every spinning process and yarn application is unique. Zschimmer & Schwarz spin finishes are designed to adapt to specific polymers, spinning conditions and performance requirements. Our solutions offer excellent wetting properties and high fiber affinity, supporting stable and efficient application.

## KEY BENEFITS

- ▶ Reliable spinning and texturing performance
- ▶ Controlled friction and yarn cohesion
- ▶ Adjustable yarn touch from soft to harsh
- ▶ Durable and consistent carpet performance

## PRODUCT PORTFOLIO

Different polymers require specifically adapted spin finish formulations. Our portfolio includes solutions for the most important carpet yarn materials.



## SPIN FINISHES FOR POLYPROPYLENE CARPET YARNS

Polypropylene fibers offer low density, chemical resistance and cost efficiency, and they are widely used for carpet yarns. Our spin finishes ensure stable spinning performance while enabling precise control of yarn properties.

The surface characteristics of carpet yarns strongly influence the appearance, surface feel and durability of the final carpet. By adjusting the spin finish formulation, we can tailor the yarn to meet specific application requirements.



PRODUCT	ACTIVE MATTER	APPLICATION	SPECIAL FEATURES
CONOLAN CP 120	80 %	For neat oil and emulsion application	Soft touch
FASAVIN CP 170	99 %	For neat oil and emulsion application	Harsh touch
FASAVIN CP 1002	63 %	For neat oil and emulsion application	Super soft touch
FASAVIN CP 1080	78 %	For neat oil and emulsion application	Soft touch, superior wetting behavior and latex compatibility

## SPIN FINISHES FOR POLYAMIDE CARPET YARNS

Among synthetic materials used for carpet yarns, polyamide BCF is one of the leading options due to its outstanding durability, abrasion resistance and resilience.

Polyamide fibers are particularly suited for demanding applications and offer excellent dyeability. Their processing typically involves higher temperatures, requiring spin finishes with enhanced thermal stability.

Our spin finishes for PA are suitable for both spun-dyed nylon (SDN) and raw-white polyamide yarns.



PRODUCT	ACTIVE MATTER	APPLICATION	SPECIAL FEATURES
FASAVIN CA 105	99 %	For neat oil application	Standard product
FASAVIN CA 140	99 %	For neat oil and emulsion application	Optimized for emulsion preparation



## SPIN FINISHES FOR POLYESTER CARPET YARNS

Due to their durability and cost efficiency, polyester fibers are widely used in carpet applications.

Spin finishes for spun-dyed and raw-white polyester carpet yarns ensure reliable processing while supporting the desired yarn characteristics.

PRODUCT	ACTIVE MATTER	APPLICATION	SPECIAL FEATURES
FASAVIN CS 20	80 %	For neat oil and emulsion application	Soft touch
FASAVIN CS 1810	99 %	For neat oil and emulsion application	Soft touch, superior thermostability

## SPECIALTY SPIN FINISHES

Beyond standard spin finish solutions, Zschimmer & Schwarz also offers specialty finishes designed for specific functional requirements.

### Hydrophobic spin finish for multifilament yarn

FASAVIN WR 1001 is a hydrophobic spin finish for multifilament yarns, enabling water-repellent properties for specialized technical applications.

Its application requires precise process adjustments, but it allows targeted control of yarn surface properties and functional performance.

### FDA-compliant spin finish for filter candles

BCF yarns are not limited to carpet applications. Their voluminous structure also makes them suitable for a range of technical applications.

FASAVIN CP 1085 is designed for filter yarns used in the food industry, for example in juice filtration, where BCF yarns are processed into filter candles. Thanks to its raw material composition being in conformity with FDA, the spin finish is suitable for use in food-related processes.

PRODUCT	ACTIVE MATTER	POLYMER	APPLICATION	SPECIAL FEATURES
FASAVIN CP 1085	100 %	PP	For neat oil and emulsion application	Soft touch, FDA compliance
FASAVIN WR 1001	10 %	PP, PET, PA	For emulsion application (ready-to-use)	Hydrophobic spin finish





# TECHNICAL SERVICE & APPLICATION EXPERTISE

Every spinning process and yarn application is different. Many of our spin finishes are therefore developed in close cooperation with our customers. Our application laboratories simulate spinning and processing conditions to support customers in optimizing their production processes.

**Our experts assist with:**

- ▶ Product selection
- ▶ Formulation adjustments
- ▶ Process optimization
- ▶ Application testing

From fiber production to carpet performance, Zschimmer & Schwarz spin finishes help manufacturers achieve reliable processing and tailored yarn properties.





# CHEMISTRY TAILOR-MADE

Zschimmer & Schwarz is an internationally active company with headquarters in Lahnstein near Koblenz, Germany. The company has been family-owned since its foundation in Chemnitz, Germany, in 1894.

Our core business is the development, manufacture and delivery of tailor-made chemical auxiliaries for the leather, ceramic, textile and chemical fiber industries. Manufacturers of cleaning agents, personal care products, lubricants and industrial applications all over the world trust in the company's chemical specialties as well.

The corporate group Zschimmer & Schwarz combines 27 companies in 16 countries on five continents. Our customers can always rely on a uniform quality standard worldwide and equally on the high service orientation of our local experts.

The portfolio of our Fiber & Textile Auxiliaries Division is used across the value chain from spinning and processing yarn to finishing the fabric. In the fiber sector, we offer auxiliaries for the production and processing of filament yarns, fibers and nonwovens. Customized spin finishes ensure smooth processes for our customers.

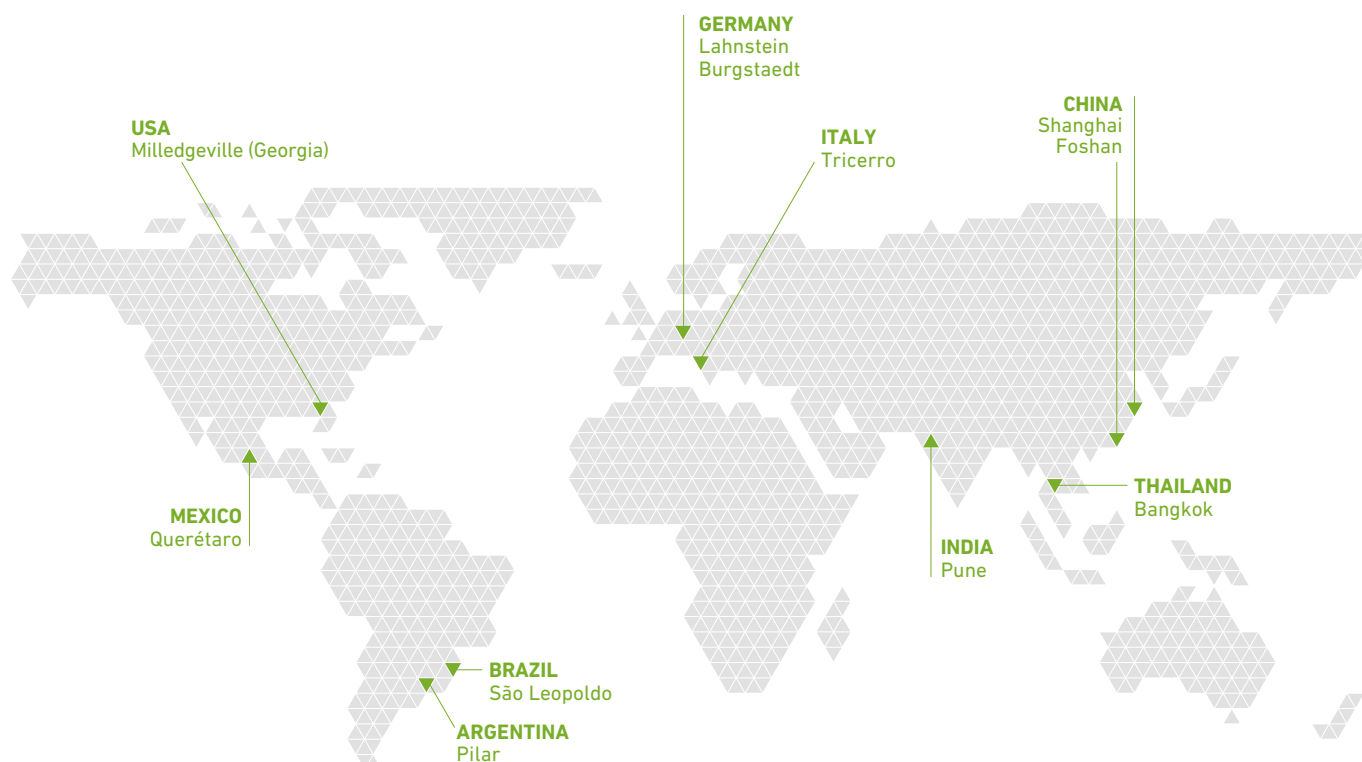
Our products provide weather resistance, durability, skin compatibility as well as environmental friendliness. Our textile auxiliaries comprise innovative and sustainable solutions for pretreatment, dyeing and printing as well as finishing and coating. From bleaching agents, detergents and dyeing auxiliaries to water repellents, flame retardants and air-improving specialties, we offer tailored solutions for the textile industry.

Our application technologists and sales service will be happy to advise you.

## Get in touch with us:

[fiber-textile@zschimmer-schwarz.com](mailto:fiber-textile@zschimmer-schwarz.com)

## LOCATIONS OF OUR FIBER & TEXTILE AUXILIARIES DIVISION





## Chemistry tailor-made

### ▶ EUROPE

#### Zschimmer & Schwarz

GmbH & Co KG Chemische Fabriken  
Max-Schwarz-Strasse 3-5  
56112 Lahnstein | DE  
T +49 2621 12-0 | F +49 2621 12-407  
info@zschimmer-schwarz.com  
zschimmer-schwarz.com

#### Zschimmer & Schwarz

Mohsdorf GmbH & Co. KG  
Chemnitztalstrasse 1  
09217 Burgstaedt | DE  
T +49 3724 67-0 | F +49 3724 67-209  
info.zsm@zschimmer-schwarz.com  
zschimmer-schwarz.com

#### Zeta Esse Ti S.r.l.

Via Angelo Ariotto, 1/B  
13038 Tricero (VC) | IT  
T +39 0161 80 86 01 | F +39 0161 80 73 63  
info.zst@zschimmer-schwarz.com  
zschimmer-schwarz-zetaeseti.it

### ▶ ASIA

#### Zschimmer & Schwarz

India Private Limited  
S No. 32/33, Plot No 53  
Alankar Society  
Karve Nagar, Kothrud  
Pune 411052 | IN  
T +91 20 2546 9004 | M +91 98 6028 0709  
info.zsin@zschimmer-schwarz.com  
zschimmer-schwarz.com

#### Zschimmer & Schwarz

Chemical (China) Co., Ltd.  
No. 16, Kaiyuan Road  
Datang Industrial Park  
Sanshui, 528143 Foshan, Guangdong | CN  
F +86 757 87 27 06 01  
F +86 757 87 27 06 09  
zsc@zschimmer-schwarz.cn  
zschimmer-schwarz.com

#### Zschimmer & Schwarz

Chemicals HK Ltd.  
Shanghai Representative Office  
Rm. 1002, Oriental Cable Building  
No 699 Nanjing (West) Road  
Shanghai 200041 | CN  
T +86 21 52 11 01 80  
F +86 21 52 11 01 89  
zssh@zschimmer-schwarz.cn  
zschimmer-schwarz.com

#### Zschimmer & Schwarz

(Thailand) Co., Ltd.  
130/130 Wangchula Real Estate  
Moo 3, Pahol-yothin Road Km. 68  
Tambol Wangchula, Amphur Wangnoi  
13170 Ayutthaya | TH  
T +66 3572 1035-38  
info.zsth@zschimmer-schwarz.com  
zschimmer-schwarz.com

### ▶ AMERICA

#### Zschimmer & Schwarz, Inc.

70 GA Highway 22 W  
Milledgeville, GA 31061 | US  
T +1 478 454 1942 | F +1 478 453 8854  
info.zsus@zschimmer-schwarz.com  
zschimmer-schwarz.com

#### Zschimmer & Schwarz

do Brasil Ltda.  
Estrada Geral Morro do Paula 546  
Distrito Industrial - Bairro São Borja  
93032-530 São Leopoldo RS | BR  
T +55 51 3566 1666 | F +55 51 3566 2003  
zsb@zschimmer-schwarz.com.br  
zschimmer-schwarz.com

#### Zschimmer & Schwarz

Argentina S.A.  
Calle 7 N° 279  
B1629MXA Parque Industrial Pilar/  
Buenos Aires | AR  
T +54 230 4529 050 | F +54 230 4529 060  
zsa@zschimmer-schwarz.com.ar  
zschimmer-schwarz.com

#### Zschimmer & Schwarz

México S.A. de C.V.  
Carretera Estatal 431 Km. 2 + 200,  
Calle 2 Lote 6  
Parque Tecnológico Innovación Querétaro  
CP 76246 El Marqués, Querétaro | MX  
T +52 442 256 75 00 - 10  
info@zschimmer-schwarz.com.mx  
zschimmer-schwarz.com



DISCOVER MORE 