



FIBRE & YARN

LUBRICANTS



ACHITEX MINERVA



# FIBRE & YARNS LUBRICANTS

Achitex Minerva Group develops, manufactures and promotes spin finishes for primary spinning, lubricants for secondary spinning, as well as coning oils for filaments and yarns, lubricants for rings and special products such as colloidal silica micro-dispersions, defoamer, antistatic agents.

Primary objective of Achitex Minerva Group is to meet customer requests through the development of tailor-made formulations, providing technical assistance for any textile process phase, thanks to a close cooperation with the producers.

A team of experts is constantly engaged to research advanced formulations with the aim of guaranteeing and improving the quality of products and processes over time, satisfying all customer and regulatory requirements.

## PRIMARY SPINNING

Most of the artificial and synthetic fibres cannot be spun and processed without aid of a spin finish, due to frictions developed during the different production processes.

Spin finishes protect every single filament by absorbing frictions, heat, eliminating electrostatic charges and ensuring cohesion between filaments.

A spin finish is a complex mixture of lubricants, emulsifiers, anti-statics, biocides and other additives which are applied

to the fibre surface by kissing rolls or metering pumps, and through threads guides immediately after extrusion.

Achitex Minerva Group is able to provide adequate solutions based on the fibres involved and the customer's technology.

## SECONDARY SPINNING

The process of transformation natural, artificial, synthetic fibres and staple fibres into yarns is known as secondary spinning.

Fibres processing involves friction, heat and electrostatic charges as in primary spinning, with consequent lack of cohesion among fibres themselves.

These problems can be solved through the application of an antistatic lubricant directly on tops, slivers and rovings,

which creates a protective film around each fibre.

Achitex Minerva Group has taken advantage from the long and consolidated experience as a supplier of the most important Italian textile spinning mills, which has allowed it to refine its formulations and develop new recipes that meet every customer requirement.

## PRIMARY SPINNING FROM POLYMER TO FIBRE

| POLYAMIDE      | LOY/POY/FOY | POY>DTY | BCF |
|----------------|-------------|---------|-----|
| AVIFIL NFD 02  | ●           |         |     |
| AVIFIL NFD 94  | ●           |         |     |
| AVIFIL PA 485  | ●           |         |     |
| AVIFIL PA 487  | ●           |         |     |
| AVIFIL PA 515  | ●           |         |     |
| AVIFIL NPY 82  |             | ●       |     |
| AVIFIL NPY 164 |             | ●       |     |
| AVIFIL PA SA   |             | ●       |     |
| AVIFIL PA RDC  |             |         | ●   |

| POLYESTER      | LOY/POY/FOY | POY>DTY |
|----------------|-------------|---------|
| AVIFIL TWDS    | ●           |         |
| AVIFIL HT 906  | ●           |         |
| AVIFIL PES 303 |             | ●       |
| AVIFIL PES 606 |             | ●       |

| POLYPROPYLENE | CF | STAPLE FIBRE | BCF |
|---------------|----|--------------|-----|
| AVIFIL 434    | ●  |              |     |
| TECHSPIN 80   | ●  | ●            |     |
| TECHSPIN CT 2 | ●  | ●            |     |
| TECHSPIN 75   |    | ●            |     |
| AVIFIL ALM    |    |              | ●   |
| AVIFIL BCF 80 |    |              | ●   |

| ACRILIC         | APPLICATION                             |
|-----------------|---|
| ACHISPAN 80     | Outdoor fiber                           |
| ACHISPAN ODE    | Outdoor fiber with improved washability |
| ACHISPAN 110 N  | Textile fiber                           |
| ACHISPAN GD 992 | Gel dyed fiber                          |
| ACHISPAN OE 122 | Fiber for open end spinning             |
| ACHISPAN PAC FC | Carbon fiber precursor                  |
| AVIFIL PM       | Cohesioneing and lubricating additive   |

|                           |                                 |                        |                            |                           |                                 |
|---------------------------|---------------------------------|------------------------|----------------------------|---------------------------|---------------------------------|
| LOY<br>Low Oriented Fibre | POY<br>Partially Oriented Fibre | FOY<br>Fully Draw Yarn | DTY<br>Draw Textured Fibre | CF<br>Continuous Filament | BCF<br>Bulk Continuous Filament |
|---------------------------|---------------------------------|------------------------|----------------------------|---------------------------|---------------------------------|

## SYNTHETIC STAPLE FIBER

## APPLICATION

|                   |                          |
|-------------------|--------------------------|
| TECHSPIN PES 70 L | Standard product         |
| TECHSPIN PES 77   | Improved cold resistance |
| TECHSPIN PES 529  | Soft touch               |
| TECHSPIN PSL 105  | Spunlace fiber           |
| TECHSPIN PSB 27   | Spunbond                 |
| TECHSPIN PHS 120  | Hydrophilic finish       |
| TECHSPIN PHB 377  | Hydrophobic finish       |
| TECHSPIN PGT 90   | Geotextile fiber         |

### PRIMARY SPINNING



From Chips to Fiber and Yarn



### SECONDARY SPINNING



From short Fiber to Yarn








## SECONDARY SPINNING FROM FIBRE TO YARN




### WORSTED SPINNING

#### APPLICATION

|               |   |  |
|---------------|---|--|
| DEFILAN EM 35 |   | Ordinary wool and blends   |
| DEFILAN UN    |    | Universal lubricant for wool and blends                            |
| DEFILAN VP 90 |   | Noble fiber, especially for animal hair                            |
| DEFILAN W 406 |   | Universal, high concentration lubricant with antistatic protection |



### WOLLEN SPINNING

#### APPLICATION

|               |   |  |
|---------------|---|--|
| ACHFIL AL     |   | Ordinary wool and blends   |
| ACHIFIL R 345 |   | Fat wool   |
| ACHIFIL TXN   |   | Ordinary wool and blends   |
| ORAFIL AT     |   | Noble fiber  |
| ORAFIL CW 31  |   | Universal, high concentration lubricant with antistatic protection |
| ORAFIL CW 70  |   | Carpet yarns   |
| ORAFIL MS     |    | Ordinary wool and blends   |

### ADDITIVES AND SPECIAL PRODUCTS

#### DESCRIPTION

|                  |   |  |
|------------------|---|--|
| TOPSOIL LW 2     |   | Top making lubricant                     |
| ACHIFIL STO      |   | Cohesioneing and lubricating additive    |
| DEFILAN HRO      |   | Semi-worsted spinning lubricant          |
| ACHISTAT 073 F   |   | Universal antistatic                     |
| ACHISTAT K       |   | Antistatic for wollen spinning           |
| ACHISTAT AL 30   |   | Antistatic for worsted spinning          |
| ACHISTAT HF 50   |   | Antistatic for synthetic fiber           |
| ACHIFLEX PS      |   | Silica gel for worsted spinning          |
| ACHIGEL 12       |   | Silica gel for wollen spinning           |
| RINGOIL B2       |   | Ring lubricant                           |
| COROIL NGL       |   | Mineral oil based coning oil             |
| CONALUBE ECO 040 |  | Eco friendly coning oil                  |
| CONALUBE ECO 100 |  | Eco friendly coning oil with anti splash |



Suitable for GOTS



Top range



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