

## SYNTHOSPIN™ P-100-NF

SYNTHOSPIN™ P-100-NF is a highly concentrated liquid, non-foaming, “phenol free” antistatic agent.

### SPECIFICATIONS

<b>Appearance</b>	Light amber, clear oily liquid
<b>Solubility</b>	Completely soluble in water--all dilutions
<b>pH (2% solution)</b>	7.5-9
<b>Density</b>	~8.6 lbs/gallon

### GENERAL COMMENTS

- An extremely effective nonionic antistatic non-yellowing agent.
- A very small amount of **SYNTHOSPIN™ P-100-NF** required for most applications.
- Least critical to gumming, particularly on 100% polyesters and blends thereof, especially during spinning.
- Versatile on all synthetics including polyester, acrylic, modacrylics, rayon, Tencel, acetate, polypropylene and nylon.
- Applicable to wool and on most systems such as cotton, worsted, modified worsted (compact), sliver-to-knit and woolen or as a spin finish.
- Readily soluble in water in any proportion to produce an opalescent solution.
- Excellent tint dispersant and easily scoured
- Non-foaming
- A superior drafting (sliding of fibers)

### APPLICATIONS

#### *Polyester*

Since **SYNTHOSPIN™ P-100-NF** is least critical to gumming or loading of the cards, particularly on 100% polyesters and blends thereof. It is finding wide acceptance here (helping a multitude of mills who have tried unsuccessfully other materials on polyesters) for it will not cause roll lapping.

We suggest initially in progressing 100% polyesters, that 0.175% to 0.20% on weight of fiber(owf ) be applied from a 1:9 cut in water at the opening hopper with or without tint. Other difficult blends, such as dope-dyed or stock-dyed modacrylic/polyester blends are processed most successfully with this highly antistatic and fly-reduced material.

*On 100% Polyester or blends:*

0.25% owf **SYNTHOSPIN™ P-100-NF**

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## ***Acrylic***

On 100% Acrylics, a 0.2% owf add-on from a 1:9 cut in water aids appreciably in reducing carding fly and drop-out, from a more compact lap and reduce shedding during spinning. Mills using lacquer for bobbin identification, indicate that **SYNTHOSPIN™ P-100-NF** does not cause softening of this material nor sticking to the cans during coiling.

*On 100% Acrylics or blends with modacrylics:*

0.25% to 0.5% owf **SYNTHOSPIN™ P-100-NF**

## ***Tow Conversion***

Mills who convert particularly Polyester, Rayon, Tencel, Acrylics, Modacrylic (Dynel\*\*) tow, who've had problems with too gummy an antistat and could not easily draft or cut the tow, indicate that with the use of **SYNTHOSPIN™ P-100-NF** their problems have been virtually eliminated.

Generally 0.25% - 0.5% owf application either neat or in a 1:4 cut in water is recommended to be applied at the crimper roll, the lower percentage (0.25%) should be considered initially.

## ***Spinning***

During gilling, about 0.25% add-on owf of **SYNTHOSPIN™ P-100-NF** is recommended either neat or from a 1:4 cut in water, particularly on 100% Dacron, Dacron/Wool blends and Dacron/Mohair blends

## ***Top Dyeing***

Generally, at the backwasher **SYNTHOSPIN™ P-100-NF** is sprayed either neat or in a 1:4 cut in water at a 0.25% owf add-on. This material will withstand temperatures in the area of 350°F without volatilization or decomposition.

## ***On Needle Felts***

Generally, 0.2% to 0.25% owf of **SYNTHOSPIN™ P-100-NF** with or without 0.2% to 0.25% owf of **SPINRITE™** depending on the fiber blend supplies the necessary static protection, lubricity, yields and web cohesion.

Information contained in this technical data sheet is up-to-date and correct to the best of our knowledge at the date of issue and are subject to change. As Organic Dyes and Pigments LLC cannot control or anticipate the conditions under which this product may be used, each user should review the information in specific context of the planned use. Organic Dyes and Pigments LLC will not be responsible for damages of any nature resulting from the use or reliance upon the information contained in this data sheet. No express or implied warranties are given.

Released: 07/20 RY

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