

# Recron<sup>®</sup>

## Non Woven Fibres

For the entire universe of Non Wovens





Reliance Industries proudly presents Recron® Non Woven grade polyester staple fibres for use in diverse non woven processes. Through stringent and cutting edge in-house Research & Development from Reliance, Recron® Non Woven grade fibres are engineered for optimum performance in each Non Woven application.

As a product, non woven fibres are increasingly playing a key role in our lives. They are used in making everything from wipes to diapers to surgical masks and gowns to reinforcing roads / construction – applications that offer the assurance of protection and strength to people in their everyday life. Unknown to many, non woven fibres have helped make life easy and carefree, by producing superior quality products.

Recron® Non woven fibres are designed to be used on high production non woven machines. Right from the fibre structure to the spin finish dressing, all critical properties are precisely controlled so that a wide range of nonwoven technical textiles can be produced with Recron® Non woven fibres, from highly utilitarian industrial textiles to the toughest carpets to geotextiles. Spunlace non woven fibres are also certified for use in medical & hygiene applications.

## ASSURANCE OF THE RELIANCE GROUP

Reliance Industries Limited (RIL) is India's largest private sector company on all major financial parameters. It is a diversified industrial group with a formidable presence in Oil & Gas, Refining & Marketing, Petrochemicals, Chemical Intermediates, Textiles, Organized Retail and Special Economic Zones (SEZs).

RIL has sought to deliver a better quality of life at affordable prices by focusing on research and innovation to constantly improve existing products and at the same time develop new products. As a result, RIL was the first private sector company from India to feature in the Fortune Global 500 list of 'World's Largest Corporations.'

RIL is the largest producer of polyester fibre and yarn in the world, with a capacity of 2.5 million tonnes per annum. It invests significant amounts on R&D in the polyester sector. Reliance Technology Center, Reliance Testing Centre and Reliance Fibre Application Centre constantly develop and introduce innovative products for the non woven industry.





## RECRON® FOR SPUNLACE NON WOVEDS

### Hygienic, Contamination-free, Gentle Care & Protection

Recron® Non woven polyester staple fibre is engineered to suit the processing needs of most modern spunlace products using dry-laid (carded or air-laid) web. These fibres are **workable on high speed cards, low foaming type and can be processed either alone or in blends.** They are ideal for producing roll goods for use in various end-uses such as wipes, medical, hygiene, home and industrial applications.

Apart from Regular Spunlace, our specialty fibre offerings are:

- **Recron® Hi-Cover Spunlace** for better surface coverage and thus lighter gsm nonwoven fabrics
- **Recron® Supersoft Spunlace** for softer and light-weight wipes and end products
- **Recron® Hi-Absorb Spunlace** for better moisture management
- **Recron® Extra Hygiene Spunlace** for enhanced protection from microbes



## RECRON® FOR NEEDLE-PUNCHED NON WOVEDS

### Temperature Stable, Filtration Efficient

Recron® Non woven polyester staple fibres for needle punching are specially designed to meet the toughest specifications of user industry. These fibres are produced with **special emphasis on critical parameters like tensile strength, elongation, modulus, shrinkage, etc. to ensure optimal performance of end products.**

Some applications of Recron® Non woven fibres for needle-punched non wovens include geotextiles for construction, filters for automotive and industrial operations, roofing felts, insulation, upholstery, shoe uppers, automotive and home-textiles.

Apart from regular fibre, the following specialty fibres are also available :

- **Recron® UV Stable** for protection from harmful UV radiation
- **Recron® Inert Fibre** for acid & alkali resistance in ambient condition



## RECRON® FOR THERMAL-BONDED NON WOVEDS

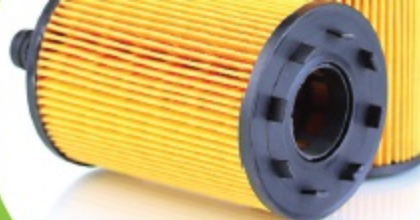
### Dimensionally Stable, Low Shrinkage, Hi-loft & Hi-TOG

Recron® Non woven polyester staple fibres give advantage over other contemporary synthetic fibres in both compact calendered as well as high loft thermal bonded non wovens due to their superior attributes.

These fibres are designed to **give optimum performance in thermal bonding due to less shrinkage, compatibility with binder fibres at different temperatures and also excellent bulk and insulation properties.**

Customized Recron® Non woven fibres can be offered to suit different applications such as interlinings, acquisition & distribution layer (ADL), high loft waddings, etc.

Recron® spiral crimped 'conjugate fibres' are ideal for hi-loft insulation, waddings, etc.



## RECRON® 3S FOR NON WOVEN WETLAID APPLICATIONS

### Easy Dispersion, Durable & Resilient

Recron® 3s fibres have been **engineered with an advanced finish technology to cater to key requirements of the specialty paper industry including wallpapers, different industrial filters, tea bags, drip catchers and battery separators.**

Recron® 3s fibres have the following advantages:

- Excellent unmatched dispersion for uniform wetlaid non woven process
- Increase in tear, tensile and burst strength in combination with the bonding material
- Modification in porosity and dimensional stability
- Low dry heat shrinkage providing greater dimensional stability to all grades of paper
- Provides excellent wet strength for web and finished product, required in liquid filtration applications

Recron® 3s fibres are available in customized packaging as per requirements ranging from vacuum bags to Gaylord boxes.

FDA/BfR approved



# Recron® Nonwoven fibres product range

Nonwoven processes	End-use	Denier Type	Cutlength (mm)	Cross section	Special Features
Spunlace	Medical	0.9, 1.2, 1.5	38, 51 (for carding)	Solid circular	<ul style="list-style-type: none"> <li>• Low foaming</li> <li>• Enables easy hydro-entanglement</li> <li>• Versatility for use as 100% or with blends</li> </ul>
	Hygiene Home Industrial	Hi-Cover Supersoft Hi-Absorb Extra Hygiene	22 (for air-laid)		
Needle punched	Geotextiles	3.0, 6.0 UV Stable Inert Fibre	64, 90	Solid circular	<ul style="list-style-type: none"> <li>• High strength</li> <li>• High modulus</li> </ul>
	Filtration	1.5, 2.0, 3.0	51, 64	Solid circular	<ul style="list-style-type: none"> <li>• Stability at high temperature</li> </ul>
	Upholstery Shoe Uppers	2.0, 3.0	51, 64	Solid circular	<ul style="list-style-type: none"> <li>• Withstands high temperature</li> <li>• Compatibility with chemicals</li> </ul>
	Automotive Home Carpets	6.0, 15.0	64, 76	Solid, Hollow circular	<ul style="list-style-type: none"> <li>• High resilience</li> </ul>
Thermal bonded	Interlining	1.5, 2.0, 3.0	51, 64	Solid circular	<ul style="list-style-type: none"> <li>• Low shrinkage</li> <li>• Good dimensional stability</li> </ul>
	ADL	6.0	51, 64	Solid circular	<ul style="list-style-type: none"> <li>• Special finish at hygiene end use</li> </ul>
	High loft / insulation	4.0, 6.0, 7.0, 12.0, 15.0 (regular and conjugate)	51, 64	Hollow	<ul style="list-style-type: none"> <li>• High loft</li> <li>• Excellent insulation</li> </ul>
		Micro & 1.5	38, 51	Solid	<ul style="list-style-type: none"> <li>• Solid Feather touch feel</li> <li>• Excellent insulation</li> </ul>





## Oekotex-Certified



The entire product range of Recron® polyester fibres for non wovens meets the requirements of the Oekotex Standard 100 (Product Class 1), indicating the absence of harmful substances and is safe for use even by infants. Special grades of nonwoven fibres for medical and hygiene applications also pass microbiological and toxicological tests.



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