

# Wet SQUEEZING

## LICOSYS Nonwoven Rolls for Textiles

World is getting more & more competitive & everyone wants more for less.

Focus moves to economies of scales & our LICOSYS Rolls which were earlier perceived as being expensive are now being installed by dozens often under 1roof & perception is now changed to that of a necessity.

LICOSYS Rolls are non woven based & work on capillary cum vacuum principal & have properties of excellent liquid extraction, long life, excellent gripping. Gentle & uniformly distributed web loading besides ease of maintenance.

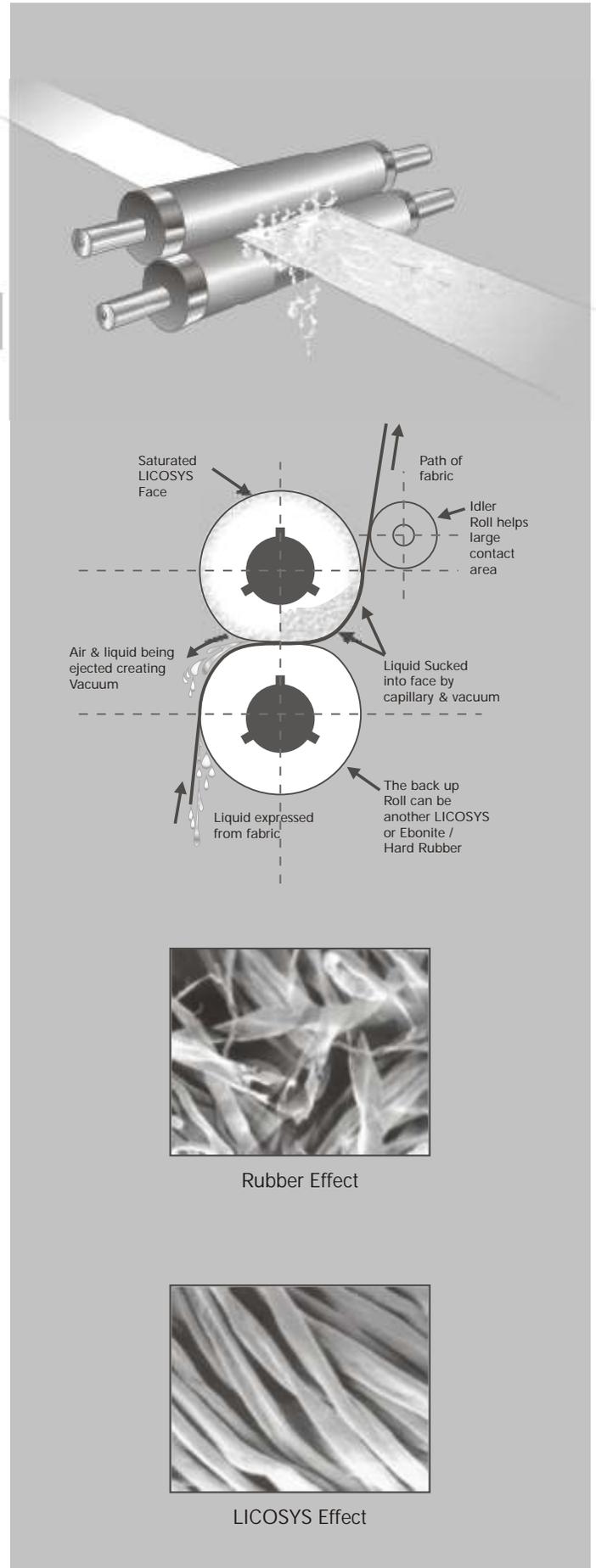
The reported improvements in processing speed is at the minimum 15% & as high as 50% & is widely accepted in all Wet processing like Stenters, Mercerizers, Drying Ranges, VSF Mfg & Balloon Padders etc.

Due to the much higher loads LICOSYS Rolls normally need a **hard ebonite backup roll** for best results or a second LICOSYS roll especially for thick tubular knitted fabrics for Balloon Padders etc.

### Indicative Expression at 40 Kg./cm & 40 MPM

Fabric Type	Hard Rubber	LICOSYS	Gain%
100% Cotton Knit	75%	55%	27%
Acrylic	80%	40%	50%
PES Knit	75%	40%	47%
Nylon	38%	22%	27%
Wool Woven	75%	55%	27%
PC 60/40	51%	35%	31%
Towel	85%	68%	20%

Results can be better at higher loads or lower speeds.



## What & How of LICOSYS Non-Woven Rolls

LICOSYS Rolls are inspired by a hard porous sponge which can both suck in & discharge Liquids & Emulsions simply by changing pressure by capillary cum vacuum principle.

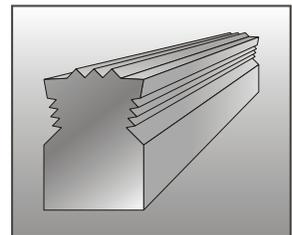
LICOSYS Rolls are based on Polyamide Nonwovens & then bonded with NBR / ABS binders for different load & pH conditions as most low Viscosity applications can be speeded up by use of LICOSYS.

Although originally developed in UK & USA & also due to prohibitive manufacturing costs, Nonwoven type rolls could not be popularized which responsibility TECHAIDS assumed around 2003 at ITMA - UK & got mass production techniques in place for consistency & economy including many innovations.

TECHAIDS has not patented any of its innovations so that the benefit of scales by all Roll manufacturers is passed to the end users thereby growing the market for Nonwoven rolls benefitting all in the process & saving precious energy for the world.

Recently we have made a World's First breakthrough innovation by providing ANCHOR TYPE KEYS which help to maintain strong grip with shaft core even when wet as most common failures in Nonwovens rollers start with keys which has been largely contained after this major improvement & the life has been greatly enhanced.

**WORLD'S FIRST**



**ANCHOR KEY**

## Major Advantages Possible only from LICOSYS Type Rollers



**CUSTOMIZED  
NON-WOVENS**

Because of a self-sustaining squeezing action thru capillary cum vacuum the average improvement in production speeds is from 15 to 50%.

LICOSYS Rolls are used in a linear pressure range of 10 to 75 kg/cms but in VISCOSE (VSF) there are instances of they being subjected to loads in excess of 125 kg/cm while still being soft to the delicate (VSF) fibers.

The body of LICOSYS last very long & its life span over rubber rolls could be 15 to 20 times due to a much higher coating thickness resulting in many more grindings.

The body of LICOSYS can fully digest foreign particles like staple pin etc. & do not result in damage to the moving web & are always Gentle in contact to the fabric due to its spongy but strong construction.

LICOSYS rolls are self-healing & if damaged can be generally restored by applying boiling water or steam etc. & then running it for a short while at max speed & pressure.

LICOSYS is offered in various specifications from Squeezing DM water to squeezing strong chemicals used in VISCOSE, Leather Tannery & Finish Stentering etc. & also now in **dying / finishing** ranges where the squeezing efficiency & uniformity has been much appreciated although continuous washing is very important.

**FOR BEST RESULTS & PERFORMANCE PLEASE FOLLOW PROPER PROCEDURE & CARE.**

**TECHAIDS** **NXG**  
An ISO 9000 Company

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