

# MANUFACTURING FUNCTIONAL NONWOVENS



## PET/CV LINES

Solutions for high throughput and efficiency

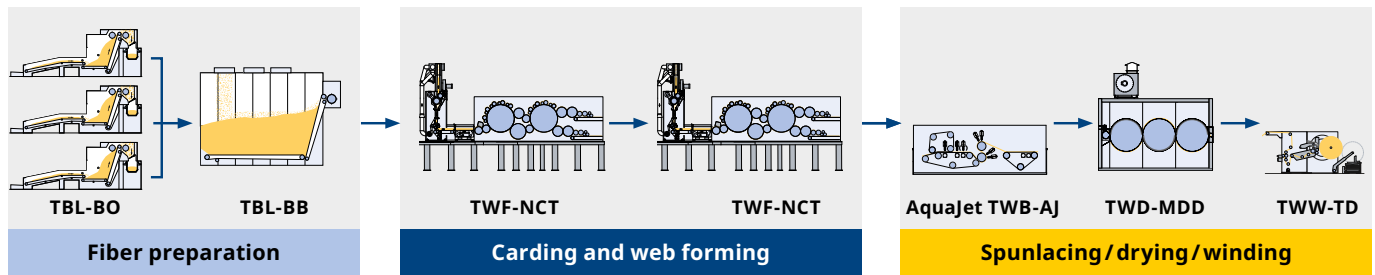
# PET/CV fiber blends for classic applications

Synthetic fibers – Polyester (PET) and Polypropylene (PP) – still play an important role in a number of applications. They deliver specific properties unmet by natural or cellulose-based fibers:

- Most classic baby and body wipes contain a polyester/viscose fiber blend. PET fibers give strength and softness while the viscose fibers take up liquids fast.

- Disinfectant wipes need chemical resistance. Therefore both PET and PP are ideal raw material choices.
- Industrial wipes' distinguished property is a soft, non linting surface – a requirement not easily met in blends containing short fibers.
- Since an even surface is a pre-requisite for a good coating substrate, PET is a first choice for this application.

Shown below is a high-capacity line configuration with 2 TWF-NCT high-speed cards.



## Line characteristics

- Wipe production with 2 NCT high-speed cards:  
Web weight: 30 – 100 gsm  
Line speed: up to 350 m/min
- Fibers: PET, PP, viscose, lyocell and blends
- Output: more than 20.000 tons/year – depending on fiber type, web weight and working width

## Did you know?

- Also available with 2 or even 3 TWF-NC cards
- Similar line concepts with just one card
- A crosslapper following a TWF-NC card optimizes MD/CD ratio
- TWF-NCT cards also efficiently process cotton fibers
- 100% viscose or lyocell fibers are also an option

## Key components for achieving high throughput

All machinery is carefully chosen to ensure high throughput and high machine availability as well as meeting all product/ process requirements.

### • Fiber preparation T-BLEND

The TBL-BO bale opener, equipped with either a weighing pan or a weighing belt, delivers 1.000 kg/hour with a weighing accuracy of +/-1%.

### • Carding and web forming T-WEB

Inline configurations of 2 TWF-NCT cards or 2 – maybe 3 – TWF-NC cards allow for highest processing speeds without compromising on web quality.

T-BLEND and T-WEB components implement the “Clean Concept”. Designs for easy and fast maintenance improve machine availability and overall line efficiency.

### • Spunlacing (T-BOND)

AquaJet’s high-speed configuration allows speeds up to 400 m/min for manufacturing plain, structured or perforated nonwovens.

### • Through-air drying (T-DRY)

Due to its modular design, the modular TWD-MDD multi-drum dryer ensures optimal dryness of the spunlaced nonwoven at minimal energy consumption.

More information:



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