

# NAVIGATOR™

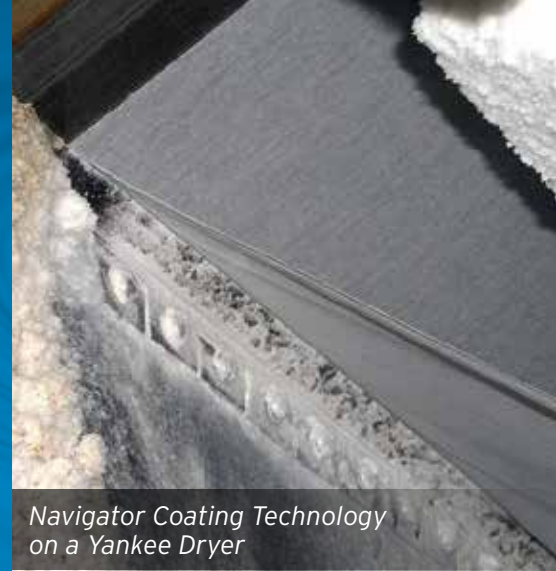
Yankee Coating & Release



**NALCO**  Water  
An Ecolab Company

Nalco Water's Navigator™ Coating & Release Platform delivers superior process and product performance for today's tissuemaker:

- Optimized machine productivity
- Improved end-product performance
- Expanded operating window and flexibility



Navigator Coating Technology on a Yankee Dryer

## Program Benefits

### MACHINE PRODUCTIVITY

- Increased adhesion and speed
- Reduction in breaks
- Extended blade life
- Improved dryer protection

### PRODUCT PERFORMANCE

- Improved crepe structure
- Increased softness
- Reduced CD and MD variability
- Accelerated quality recovery after blade changes

### PROGRAM FLEXIBILITY

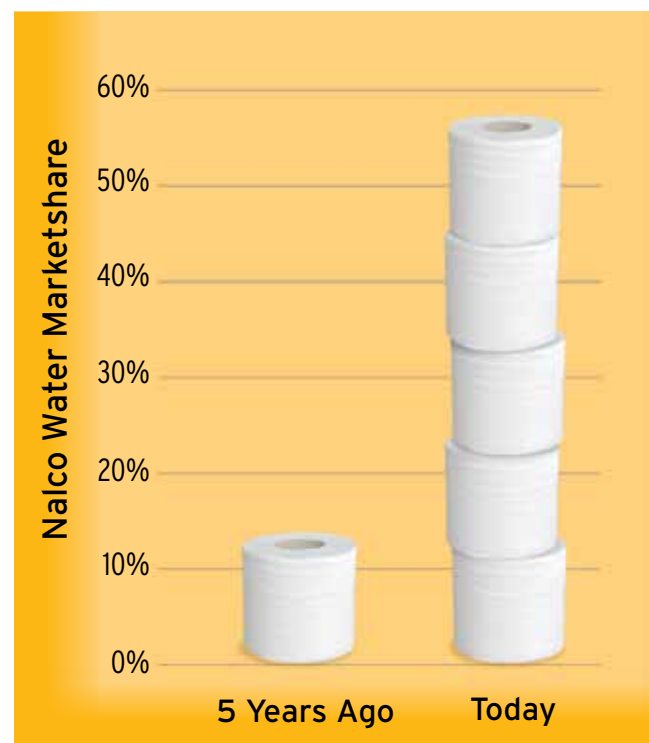
- Proven in all tissuemaking platforms
  - Conventional
  - Hybrid
  - TAD
- Accommodating to all grade environments

## Creating Value in the Market

Nalco Water's Navigator Technology has helped many tissuemakers accomplish what matters most to them:

- Higher Production
- Higher Quality
- Lower Total Cost

### NA Structured Coating Market

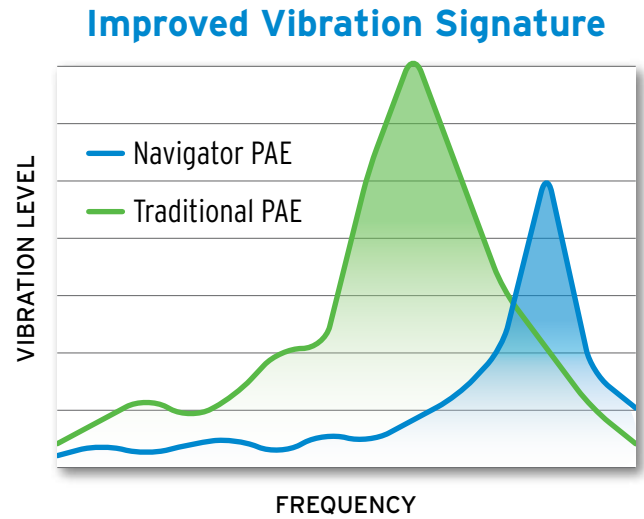
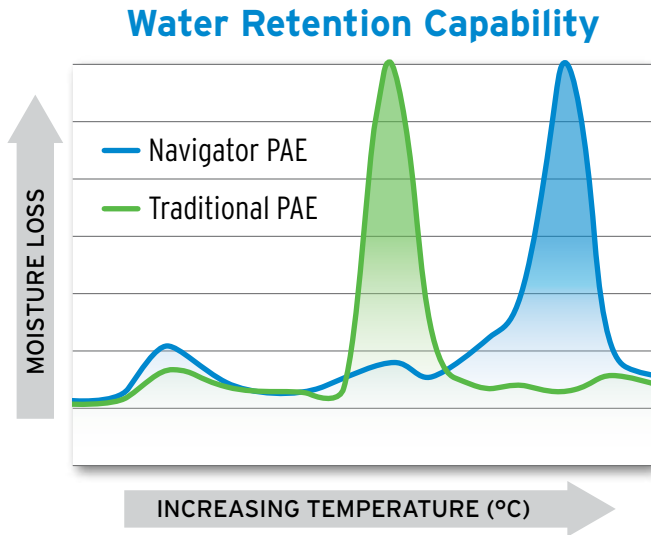


\* Market represents all In-Flow TAD and Hybrid Assets



# How Navigator Compares to Existing Offerings

- Comprehensive offering of adhesive, modifier and release technologies
- Unique PAE construction provides the optimal balance between rewettability and durability
- Superior water holding capability results in a more flexible, adhesive film
- Lower total vibration (better protection) at higher frequency (improved adhesion/creping)



## Operating Window

Navigator Programs perform across a wide variety of operating environments.

Market	AWAY FROM HOME <ul style="list-style-type: none"> <li>• Higher Moisture</li> <li>• Increasing Recycled Content</li> </ul>	CONSUMER <ul style="list-style-type: none"> <li>• Moderate Moisture</li> <li>• Increasing Eucalyptus Content</li> </ul>	ULTRA PREMIUM <ul style="list-style-type: none"> <li>• Low Moisture</li> <li>• High Eucalyptus Content</li> <li>• High Softener Content</li> </ul>
Conventional	✓	✓	✓
Hybrid	✓	✓	✓
TAD		✓	✓



**NALCO** Water  
An Ecolab Company

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