

Hybrid Machine Sees Improved Machine Speed, Runnability and Flexibility Across Grades with Navigator™ 64822



BACKGROUND

Tissue and towel makers require flexible Yankee coating programs across all machine platforms and all grade environments. Nalco Water provides tissue and towel makers with a robust portfolio of adhesive, modifier and release products. This portfolio, combined with unrivaled expertise, service and digital technology (Yankee Operation Intelligence), improves productivity, product quality and Yankee protection.

Nalco Water's Navigator™ Technology is a best-in-class Coating & Release Platform that helps tissue and towel makers take their operation to new heights. The comprehensive adhesive, modifier and release offering provides the flexibility for the entire spectrum of manufacturers, from conventional to structured and from commercial to ultra-premium. Navigator™ allows customers to pursue what matters most to them – higher production, higher quality and lower cost.

A hybrid machine producing 200 TPD in North America was looking to improve speed and runnability. Nalco Water proposed trialing Navigator™ 64822 against a two-component PAE/PVOH adhesive program.

SOLUTION

Nalco Water's Navigator™ 64822 is a simplified, single-component adhesive designed for use on advanced tissue machines, including TAD and hybrid. This single component simplifies the complexity of the coating application by providing the necessary wet and dry adhesion and enhances productivity and machine efficiency in tissue and towel grades. Nalco Water's field and technical expertise, combined with our robust portfolio, allows us to optimize programs for individual needs.

With its durable nature and soft film generation characteristics, Navigator™ 64822 can withstand the rigors of almost any tissue making process while minimizing development of edge deposits and reducing the potential occurrence of chatter. When the product is coupled with appropriate release aids, modifiers



and application expertise, the tissue/towel producer can optimize the creping process for improved sheet properties and uniformity while meeting or exceeding production requirements. These properties include softness, stretch, bulk and tensile strength.

Compared to a two-component PAE/PVOH adhesive program, Navigator™ 64822 provides:

- **INCREASED** machine speed and downstream converting output
- **IMPROVED** runnability through better transfer and stability
- **DECREASED** vibration, chatter & dusting to protect the Yankee and your facility
- **ENHANCED** sheet quality and roll profile

RESULTS

Nalco Water trialed and implemented Navigator™ 64822 and created the following value for the mill:

- Increased machine speed of ~8.5%, approximately \$2.5M
- Improved machine runnability
- Yankee protection through decreased vibration readings
- Improved sheet profile at higher speeds
- Reduced dusting and fire hazard

All these benefits yield a Total Value Delivered of >\$2.5 Million.

CONCLUSION

Navigator™ 64822 provides significant benefits to advanced machines with a simplified and flexible program. This is only one product in the robust portfolio of Yankee adhesive, modifier and release products that Nalco Water offers.

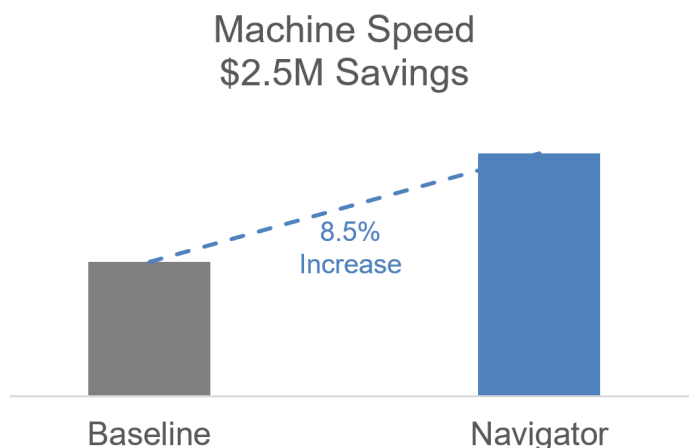


Figure 1: The machine speed trends before and after the Nalco Water Treatment Program

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