



What's Nitro?

Nitro is a unique new approach developed in AstenJohnson's R&D Labs to enhance the performance of press fabrics.

The newly developed technology offers the advantage of being applied more uniformly than any other treatment.

It ensures the highest quality standards and predictable performance with superior repeatability.

How does it work?

Nitro will increase the capillarity in a controlled way and ensures a very quick saturation of the press felt during start up.

Is this a surface treatment?

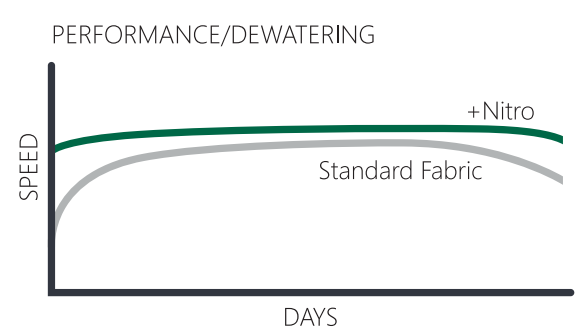
No, this enhancement is applied as part of the needling process.

How is this better than traditional treatments?

Repeatable Quality and environment friendly processes are key for AstenJohnson!

Absorption uniformity of traditional liquid solutions are very difficult to control and would need extra resources.

Nitro is much more uniform, very repeatable and does not require any extra energy to produce.



For more information about Nitro, please contact your local AstenJohnson Sales Representative.



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Case Studies

Newsprint and Liner case study

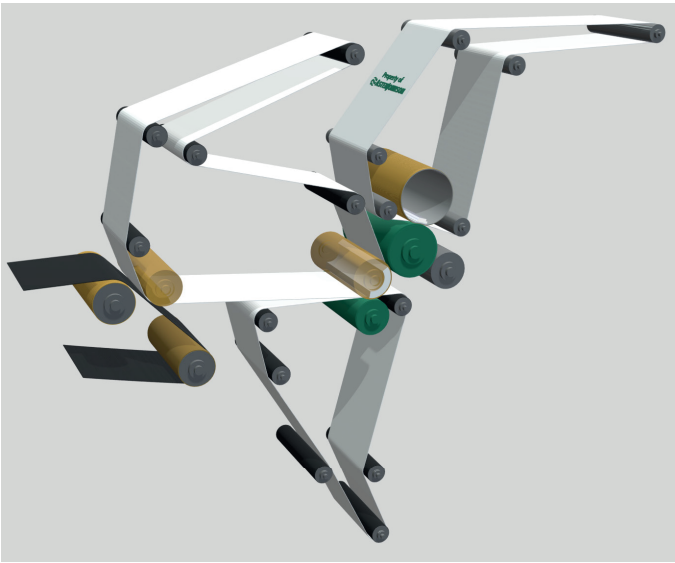
VALUE:

- Press Layout: Tri-nip
- Nip load: 78(1st), 87(2nd), 125(3rd) kN/m
- Fabric Target life: PU – 30 days
- Fabric size: PU - 29.0m x 6.95m

RESULTS:

- The customer wanted to reduce PU felt break-in time and maintain 30 days felt life
- Standard felt takes 5 days to break-in
- AccuLite with Nitro was at target speed in 3 days, although the trial felt ran in middle of winter
- 86 tons Increased for 2 days
- 86 tons x \$120/ton = \$10,320 profits

AccuLite Nitro



GRADES	Newsprint and Corrugating Medium
BASIS WEIGHTS	45 ~ 70 gsm
SPEEDS	1,250 m/min at 46 gsm NP

CASE STUDY | **ASTENJOHNSON**

Testliner case study

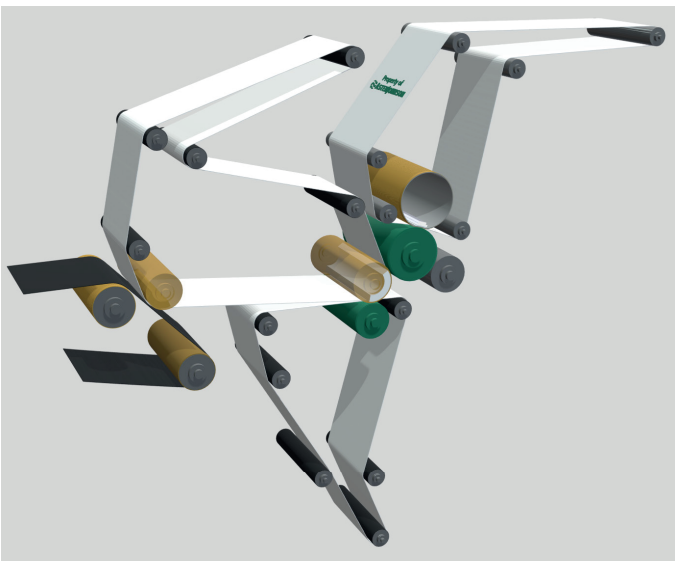
VALUE:

- Press Layout: Trinip
- Felt width: 8.3m
- Nip load: 100 kN/m; 140 kN/m; 1250 kN/m

RESULTS:

- Full AstenJohnson Press Fabric set installed
- Break in time 1 day 1400m/min (comp. 1 = 1 day, comp. 2 = 7 days)
- High dewatering potential
- Very good reaction to all machine settings
- **55% dry content** after press (comp max 53,5%)

FlexFlow 3 Nitro, FlexFlow 2, FlexFlow 3



GRADES	Testliner / Fluting
BASIS WEIGHTS	70 gsm ~ 140 gsm
SPEEDS	1500 mpm

CASE STUDY | **ASTENJOHNSON**

Testliner case study

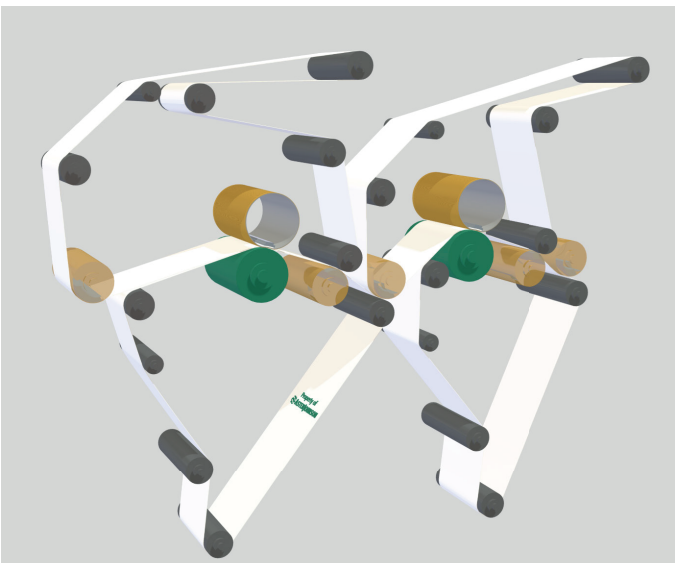
VALUE:

- Machine: Tandem Shoe Press
- Nip loading: 800(1P), 1150(2P) kN/m
- Fabric Target life: 1P – 45 ~ 50 days
- Fabric size: 1P(T/B) – 23.1m x 4.9m / 19.5m x 4.9m

RESULTS:

- BIT improvement
 - Nitro provided 60% shorter BIT than previous standard AccuLite
- Performance improvement
 - The customer was satisfied as 1P felt with Nitro maintained good performance even at the end of life
 - Achieving a life record of 1P felt (+15 days)
- AstenJohnson gets additional 2 sets of 1P felts with Nitro!

AccuLite Nitro



GRADES	Linerboard / Testliner
BASIS WEIGHTS	150 gsm ~ 250 gsm (main 180 gsm)
SPEEDS	880 mpm

CASE STUDY | **ASTENJOHNSON**