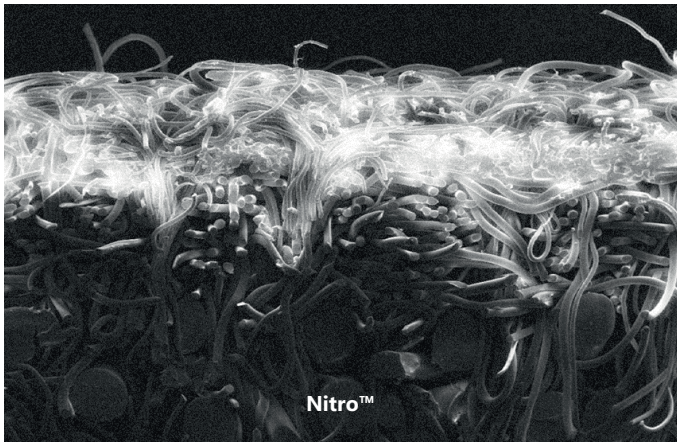
Nitro™

PRESS FABRICS

Is your press fabric break-in time costing you production? Do you wish that new felts performed more as they do once they are settled?

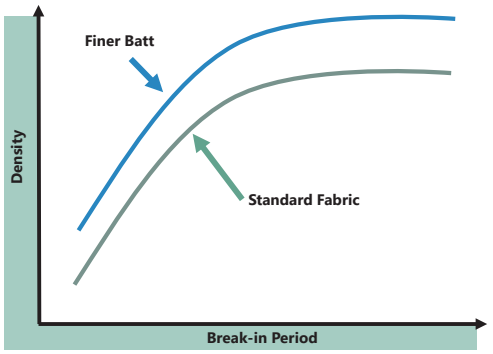
The reason press fabrics take time to settle into their running state is that the batt structure and base construction both need time to reach optimum density. The low initial density of new fabrics causes the uhle boxes to remove too much water from the felt loop, which in turn affects nip saturation and pressing efficiency. Press fabric designers have to consider this effect to ensure that **most of the useful life** of the felt falls within the optimum density range.



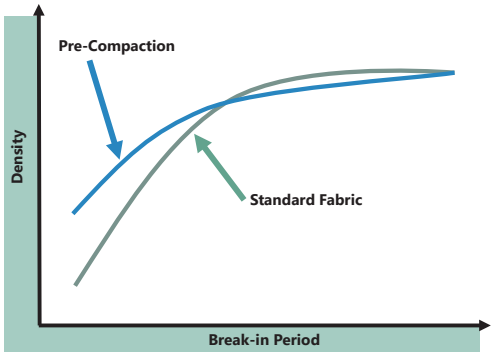
We already have several conventional tools to increase initial density and pore size: pre-compaction and finer batt layers, but to truly influence the early density without sacrificing late life performance, some radical innovation had to be brought to bear. This is why AstenJohnson introduced the NITRO™ treatment. NITRO increases initial fabric density to reduce the break-in period, and then gradually exits the fabric structure to maintain optimal operating density throughout the rest of the fabrics' useful life. Unlike other technologies, **NITRO is INTRINSIC**, part of the fabric structure, not topically applied, which ensures uniform application and does not compromise paper profiles.

Key Benefits

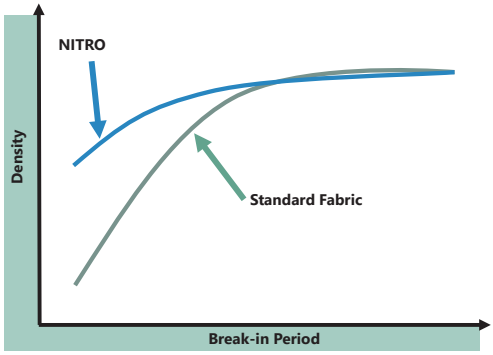
- Intrinsic to fabric design so unlike topical treatments will not affect fabric uniformity and operating profiles.
- Temporary impact, does not affect late life operation.



Finer batt closes the permeability and reaches optimal pressing moisture sooner but increases overall operating density.
This more closed structure could compromise late life operation.



Pre-Compaction increases initial density somewhat without affecting late life performance... But it is already widely applied!



NITRO combines the effects of pre-compaction and using finer batt, without affecting late life density.

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