

Carefree living: Advanced material for best in class performance

To meet our customers' wishes and requirements, new, innovative products are sometimes needed that revolutionise the market. Like our product Amphibia – the new core concept in hygiene products.



Amphibia: Advanced multi-layered nonwoven

Amphibia combines a multi-functional ADL with the absorbing core all-in-one. SAP is incorporated into one of the layers of TWE's nonwoven by physical means. The patented technology impregnates the SAP after dosing with an electrostatical field and therefore no adhesive is added. As the SAP particles are homogenously distributed over the web there is an optimal contact between the fibers and the SAP particles. In this way the fibers can distribute the liquid directly to the SAP particles. In this way the fibers can distribute the liquid directly to the SAP particles and an optimal usage of the SAP is guaranteed.

High level comfort ADL

Best in class performance by quick absorption, high distribution without leakage.

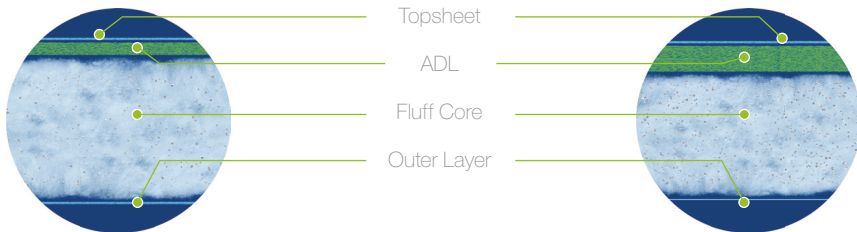
- Balance of hydrophilic / hydrophobic behaviour
- Higher weights, multi-layered with multi-functions
- Tailor-made hygiene spin finish for functionality and safety issue



Revolutional core concept

Dry web
Traditional (40:60 ratio)*

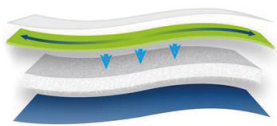
Slim Core
50:50 - 70:30 ratio*



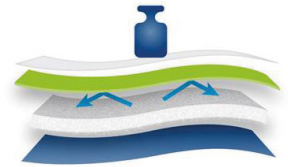
(*ratio SAP: fluff)

Thickness

This structure is more flexible than traditional fluff pulp and thus gives the SAP more freedom of movement and also allows an improved fitness at humid states. The rewet is therefore very low. No adhesive needs to be applied between the different layers, or between SAP and fibers. That means lower costs and also a better performance, avoiding a miss-match between hydrophilic and hydrophobic parts.



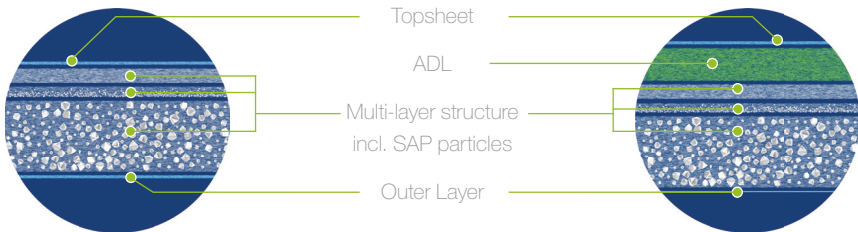
Liquid Distribution



Surface dryness / Rewet

Amphibia
Fluffless diaper

Amphibia Plus
Fluffless diaper



Amphibia: Our core benefits to making your beneficial core

Thinner diapers, better performance and enhanced comfort: Amphibia is doing all this. With variations in weights, structures, capillarity and chemistry, Amphibia can be used for femcare, adult and baby care.

It covers the whole hygiene market and answers the need of the market for high performing revolutionary products that are absorbing and comfortable.

Same amount of diapers but lower volume



Traditional diapers



Diapers with Amphibia Core

Your benefits:

- Excellent core integrity and conformability
- Anatomical fit
- SAP usage reduction/optimization
- Excellent absorption
- More storage – less shelf space
- Safer process environment:
 - Dust reduction
 - Noise reduction
 - Cost reduction in: packaging, transport & logistics, energy (no hammer mill)