Infinity Res and Infinity Res S
Outstanding vibration-resistant press fabrics

Performance and consistency under all conditions are the main features a press fabric should comprise. Unfortunately, most fabrics suffer from vibration during operation, thus entailing an important deterioration in paper quality parameters.

Therefore, Voith has developed the Infinity press fabric with an especially uniform, high-quality base fabric that results in a laminated structure with resilience under load and the ability to maintain void volume throughout operation.

Best sheet quality
The Infinity base offers a high degree of contact points and base uniformity. This results in a more uniform pressing surface.

Increased pressing uniformity in the nip has the advantage of delivering a smoother sheet. Also, dewatering is increased improving overall dryness.

Maintained durability
The combination of Infinity and the polyurethane layer ensures that each component does its job and its interaction allows for high compressibility, resiliency, and vibration resistance to improve dewatering and keep the fabric cleaner.

The cleaner, more open, saturated structure helps maintain the overall sheet side surface integrity of the fabric structure. Altogether, this results in a much higher durability of Infinity Res compared to conventional fabrics.
Quick startup and steady-state operation
The Infinity laminated structure increases dewatering through mid-nip resiliency. The Infinity bases run with a thinner caliper thereby shortening the flow path of the exiting water. Infinity will reach optimum saturation quickly to attain desired machine speeds faster, while the increased water flow through the structure flushes out contaminants to keep the fabric clean and maintain steady-state operation.

Extraordinary width stability
The Infinity manufacturing process produces excellent in-plane stability. Very little widening or lengthening is observed.

Engineered seam zone
Infinity Res can be ordered with or without a seam. For the seamed product, the Infinity seam loops are perfectly formed with identical loop length, roundness and spacing. The result is extremely fast and easy seaming. The time saved can now be used on other important shut-down tasks.

Your benefits with Infinity Res and Infinity Res S
+ Highest dewatering rates due to a higher contact area
+ Very good vibration resistance
+ High degree of compressibility
+ Enhanced dryness of the paper sheet
+ Extended steady-state performance
+ Specifically for seamed version Infinity Res S: easy and quick seaming

Layout Infinity Res S

Steam flow in lb/hour

![Steam flow chart](chart.png)

Good resiliency compared to standard woven structures

![Good resiliency chart](chart.png)

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Engineered Reliability