

A close-up photograph of a person's hands. The person is wearing a vibrant red dress. They are holding a white, rectangular, non-woven wipe against their palm. The background is a soft-focus green, suggesting an outdoor setting. The overall image conveys a sense of hygiene and modern, sustainable production methods.

spgprints®

Non-woven products

Developing special screens as production tools

Printing tomorrow.

Developing specials screens as production tools

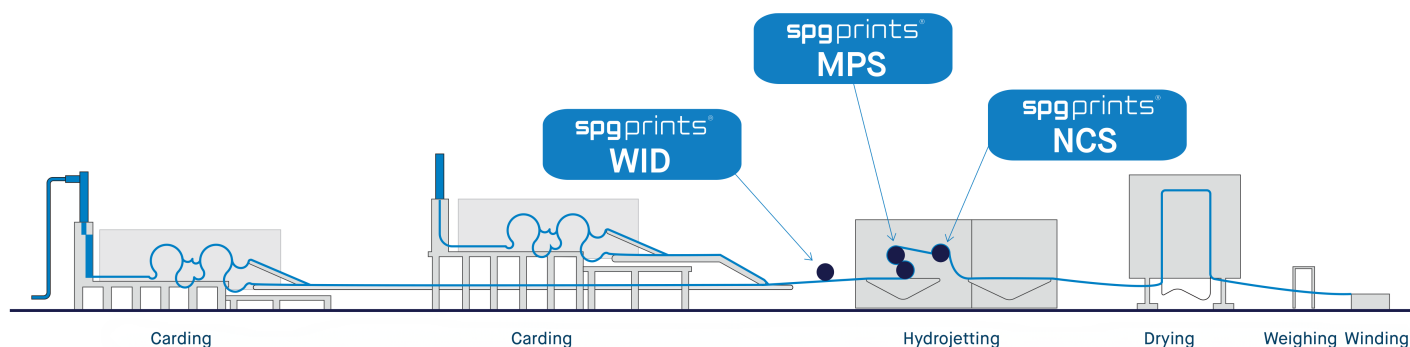
The non-woven market is very large and distributed globally. SPGPrints is currently active in a production technology called Spunlace. For this, we offer a series of special screens.

The spunlace technique, also referred to as hydro-entanglement, is mostly used in the production of thinner fabrics used for disposable hygiene products like diapers and wipes. This is a healthily growing segment within non-woven, and has a great technology fit with our type of screens.

The interesting thing about non-woven production for SPGPrints is that we don't use our rotary screens to print, but as a non-binding production tool. These screens are used as element inside a large non-woven production line and perform an essential role within the production.

Application focus

The highly profit-yielding market of non-wovens is based on experience and know-how of the producers, and remains a highly innovative field. We have improved our screens specifically for the key applications within hydro entanglement, such as baby care, personal hygiene, medical and household. Working closely with customers is our goal to improve non-woven features such as design, softness, drape, tensile strength, absorbance etcetera.



Versatile and competitive high quality non-woven products

Non-woven fabrics are engineered through a unique process that involves the bonding or entangling of fibers without the need for spinning and subsequent weaving or knitting. Instead, these fibers are processed in a way to stick together and become a piece of fabric. The results are versatile products, which lend themselves well to be specifically designed towards the intended end-use.

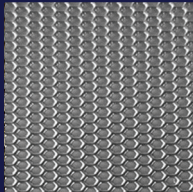
Non-woven fabrics are already widely used in the production of medical masks, surgical gowns, wipes and diapers. The latest innovations in non-woven production lie within aesthetically pleasing products, which are closely approaching the woven and knitted materials. These products are being used in the automotive, home décor and even fashion industries. However, non-woven fabrics (interlinings) are very suitable for clothing as well thanks to:

- Specific characteristics, such as breathability, water resistance, or fire retardancy and cost.
- Their excellent strength and durability, making them ideal for applications where robustness is required.
- Their lightweight nature, together with flexibility and softness, adds to their appeal and functionality.

If your business produces large volumes of high-quality non-woven fabrics, SPGPrints offers a unique technology that is certain to give a competitive edge. With various options in terms of hole amounts, hole sizes and hole distributions, you can be sure to achieve the best and most efficient results for different fiber compositions and substances. Add priceless value to your non-woven product, for any type of fiber!

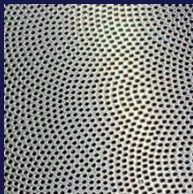
Product range overview

The down following product range gives an idea of the product we offer to the Non-woven industry:



Web interchange devices (WID)

Screens used to transport the non-woven web through a production line



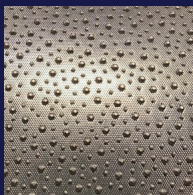
Micro-perforated cylinders/shells (MPC/MPS)

Screens used in the hydro entanglement phase of non-woven production



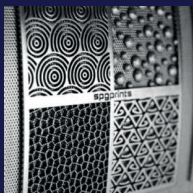
2D-embossing screens

Screens used to emboss patterns into the non-woven fabric



Nickel Compound Screen technology (NCS)

Advanced screens to create special effects and relief



Custom developed products

Special screens fully designed to the customers specification

If you have any questions about our special screens for non-woven production, you can always contact our specialists. By requesting a Proof of Concept, you can discover what this technique can do for your manufacturing right away. We'd love to hear your challenges and opportunities.



High quality nickel shells for demanding non- woven production

Key takeaways

The SPGPrints nickel shells are uniquely suited for spunlace or hydro-entanglement production of non-woven products. This fast growing segment is innovating quickly, and is moving into new applications and more sustainable materials.

Whether you are looking for screens for the core processes in your spunlace line, or solutions to incorporate detailed embossed designs, SPGPrints is ready to think along.



About SPGPrints

Throughout our unique history, SPGPrints developed into an internationally acknowledged authority in textile printing, dedicated to bringing colour to the world. In recent years, our unique rotary screen printing concept allowed us to move beyond textile printing and offer solutions for labels, banknotes, COVID-19 testing strips, and more. And while still a distinct leader in rotary printing, we have also become a pioneer and a key player in the market for digital printing. In 1991 we were the first in the industry to launch a digital textile printer. Not much later we started producing ink for all leading digital technologies. Over the years, we have been awarded over 300 patents and we have built an international network in more than 100 countries. These days our focus on innovation is as strong as ever with taking care of our planet as a constant priority. We take pride in putting our customers first, letting their ambitions inspire us, and deploying our expertise, resources and network to help them to achieve their goals. Our solutions are designed to empower customers worldwide in all stages of the printing process; from pre-press to printing, from textile to industrial – and beyond. That is the global impact of a global player.



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