

## POINT BONDING

In modern polyester spun-bonded processes, continuous fibers are spun at high speeds and interlock to form a web, becoming the filtration media. To ensure stability, the fibers within this web must be securely locked.

Point bonding achieves this by running the web over a calendar roller with a patterned surface. The raised areas create dimples in the media, forming a strong weld pattern that locks the fibers in place while allowing movement between them, enabling the media to adapt to flow conditions and capture particles of different sizes.

In pool and spa applications, these welds promote filter cake formation, enhancing filtration efficiency over time. As water passes over the surface, it channels around the welds, improving the process.

When the filter becomes loaded (seen as decreased flow in spas or increased tank pressure), it can be removed and cleaned. The consistent weld pattern facilitates debris release, preventing full clogging of the media and simplifying cleaning.

## WEB LOFT

Oncore uses low denier, high fiber count polyester media to achieve many crossover points inside the web. This creates more pores of finer consistency allowing the media to be very efficient at removing debris. Smaller and more abundant pores achieve cleaner water sooner. Studies have shown a faster drop in turbidity (water cloudiness) when using a low denier Point Bonded media. As seen on the cross section of the web, welds on the surface of the media do not penetrate all the way through. This allows the water to travel throughout the loft of the web working its way out the other side.

The approach of Point Bonded, low denier, high fiber count, high crossover-point media delivers more fiber surface area than our competitors allowing us to provide the best filtration in the market.

