Building
Manufacturing
Partnerships

Oil Supply and Cleaning Webs –

Electrostatic Printing

Oil Supply and Cleaning Webs deliver precise amounts of silicone oil to the fuser for toner release and clean any remaining toner / paper dust from the fuser.

The web is a nonwoven textile, most typically of a thermal bonded construction.
Nonwoven textiles are fabrics that are produced by mechanically, chemically, or thermally interlocking layers of fibres, filaments, or yarns.

Thermal bonding is a technique for bonding fibres of a web using a conductive or convective heating method. For special cases the nonwoven may be hydroentangled, spunbond, or membrane composite.

Depending upon your specific requirements BMP will design a web utilizing various fibre chemistries, fibre sizes, and oil viscosities.

Typical product design considerations:

Operating Temperatures:	100 to 500 °F (38 to 260 °C)
Desired Oil Delivery:	0.05 to 25 mg/page
Oil Characteristics:	100 to 60,000 cs Viscosity
Desired Product Life:	5000 to 3,000,000 Prints
Toner Cleaning Requirements:	Light to Heavy
Available Machine Space:	10 to 100+ mm Outer Diameter
Fuser Materials:	Silicone Rubber to PTFE
Machine Speed:	10 to 150 cpm

Typical product characteristics:

Thickness:	0.0005” to 0.0100”
Density:	0.20 to 0.60 g/cm^3
Tensile Strength:	> 500 N/M
Fibre Chemistry:	Nomex®, Polyester, Polyimide, PPS, & Rayon

BMP is the only fuser cleaning web supplier vertically integrated into the production of thermal bonded nonwoven textiles in the Western World.

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