

Waste Ink Absorbers – Ink Jet Printing

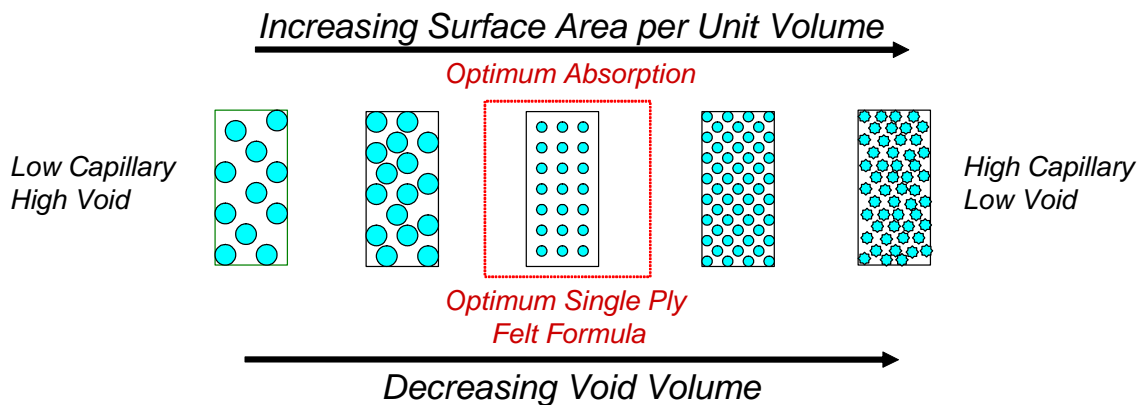
Absorbent pads:

Felt pads used to absorb waste or purged ink are typically constructed from nonwoven textiles which can be specifically designed to meet a very wide range of absorbency requirements. Nonwovens are textiles that are produced by mechanically, chemically, or thermally interlocking layers of fibers, filaments, or yarns. Depending upon your specific requirements BMP will design a felt utilizing various fiber types, fiber sizes, and nonwoven constructions.

Typical product design considerations:

Absorption is controlled by surface area per unit volume and felt chemistry.

- Surface area per unit volume is controlled by density, fiber size, and fiber cross-sectional shape.
- Chemistry is controlled by fiber and additive types. Fiber types are usually polyester, cellulose, and superabsorbent. Additives are materials such as superabsorbent powders, cellulosic fillers, and binders. BMP utilizes laboratory tests such as Volumetric Ink Retention (VIR) and Ink Capillary (CAP) to determine which material best meets your requirements.



Typical product characteristics:

Fluid Absorption (VIR):	0.05 to 1.00 (cc Fluid / cc Void Volume)
Void Volume:	20 to 95%
Capillary (CAP):	0 to 500 mm
Thickness:	0.5 to 25.0 mm
Fiber Chemistry:	Polyester, Rayon, and Cellulose



Fluid Delivery



Filtration



Media Transport



Heat Resistance



Abrasion



Sealing



Absorption



Cleaning