

Oil Supply Rollers – Electrostatic Printing

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

Typical construction incorporates a porous tube wrapped with nonwoven textiles which are impregnated with silicone oil.

Nonwovens are textiles that are produced by mechanically, chemically, or thermally interlocking layers of fibres, filaments, or yarns. Needlefelts are nonwovens produced by mechanically interlocking fibres in a process called needle punching on a needle loom machine.

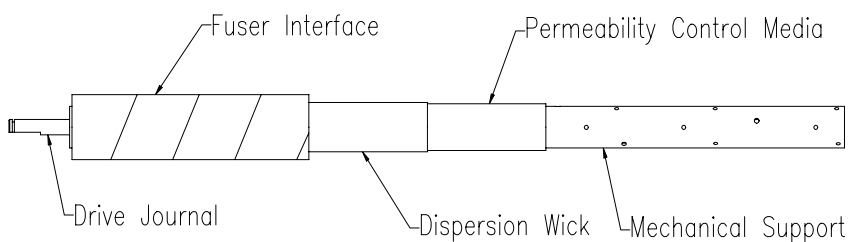
Depending upon your specific requirements BMP will design a roller utilizing various fibre types, textile types, construction designs, and oil viscosities.

Typical product design considerations:

Operating Temperature:	68 to 500 °F (20 to 260 °C)
Desired Oil Delivery:	0.05 to 50 mg/page
Oil Characteristics:	50 to 100,000 CS Viscosity
Desired Product Life:	10,000 to 2,500,000 prints
Toner Cleaning Requirements:	Light to Heavy

Typical product construction:

Fuser Interface:	Needlefelt, PTFE Coated Felt, or Pile Fabric
Textile Chemistry:	Nomex, PTFE, Imide, or PPS
Dispersion Wick:	Low Density Thermal Bonded Nonwovens
Permeability Control Media:	High Density Nonwovens
Mechanical Support / Reservoir:	Perforated Aluminum Core
Lubricating Fluid:	Silicone Oil



Fluid Delivery



Filtration



Media Transport



Heat Resistance



Abrasion



Sealing



Absorption



Cleaning