

# Wipers



## Knitted

Knit fabric consists of interlacing loops of yarn which offers several design options — knit pattern, yarn chemistry and yarn structure. Knit wipers provide great cleaning efficiency and good abrasion resistance, chemical tolerance and sorption. They are the primary wipers used in ISO Class 3-6 cleanrooms.

## Nonwoven

The nonwoven family includes patterned polymer films, mechanically intertwined or chemically bonded fibers and composites of multiple layers. Nonwoven wipers offer a wide range of performance properties. They tend to be less expensive and are good for areas that can tolerate higher levels of releasable particles and fibers.

## Fibers and Yarn

Fibers are classified as either staple or filament. A staple fiber is a short, manufactured strand, usually 1" – 3" long. Staple yarn is spun staple fiber. Staple fibers and yarn tend to break and release particles from the wiper.

Filament fibers are continuous strands, like polyester, nylon and silk. Filament yarn consists of bundles of filament fibers. Filament yarn is durable, so it releases fewer particles. Most cleanroom wipers are based on polyester yarn due to its' relative ease of use, availability, chemical resistance and autoclavability.

Cleanroom Class	Optimum Wiper Type
<b>ISO Class 3–5*</b> <i>Formerly 1–100</i>	<b>Sealed-border wipers</b> Polyester knits
	<b>Sealed-edge wipers</b> Polyester knits
<b>ISO Class 5–8*</b> <i>Formerly 100–100,000</i>	<b>Cut-edge wipers</b> Polyester and nylon knits
	<b>Nonwoven wipers</b> Hydroentangled polyester/cellulose blends
	<b>Specialty wipers</b> Hydroentangled polyester
	Cotton
	Polypropylene/ cellulose composite
	Foam



Various Sizes available,  
Common Sizes:

- 4" x 4"
- 6" x 6"
- 9" x 9"
- 12" x 12"



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