

APPLICATIONS BULLETIN

What's the Difference Between Wipe-On and Spray-On Nanocoatings?

nanoclear

Attribute	Spray-On (Fluoropolymer)	Wipe-On (SAMP)
Application	Spray and thermal cure	Wipe on
Applied by	Stencil supplier	Supplier or self
Thickness	2-4 μm	1-2 nm
Hydro- and oleophobic	✓	✓
Abrasion resistant	✓	✓
Chemical resistant	✓	✓
Visible	✓	
Reworkable if worn off		✓
Accessibility	Selected suppliers	Stencil suppliers or internet
Reduces frequency of underside cleaning	✓	✓
Solder paste volume	5 – 20% increase in TE On Area Ratios < 0.66	Slight decrease , 2-3%*
Aperture Redesign?	Maybe, for smaller apertures	No
Minimum Area Ratio	0.10 lower than foil	Same as foil
Cost	>\$100 supplier dependent	\$20-50

Download the [NanoClear Cost Savings Estimator](#)

See Also [How Will My Process Benefit from NanoClear?](#)