Proper Wiper Folding & Surface Cleaning

A guide to properly fold and use a low-linting wiper for maximum efficiency and effectiveness in a controlled environment.

Recommended Surface Wiping Procedures

- **A.** Prior to entering the cleanroom, follow written SOPs for proper hand hygiene, garment donning, and gloving procedures.
- **B.** Disinfect and clean using proper wiping technique.
- **C.** Quarter-fold the wiper to get the maximum use out of the wiper and to prevent recontamination. Turn to a new wiper surface after each straight stroke.
- **D.** Always wipe using overlapping strokes, in a parallel direction. Use a new wiper surface with each linear stroke and always wipe from back to front, cleanest to dirtiest and driest to wettest.
- E. Never wipe in a circular motion.







Hold the wiper in mid-air. Take the wiper by its edges and fold in half. The wiper should not be placed on any surface during the folding action.







Refold the wiper as shown in Step 2 to enclose the two contaminated faces and expose the two clean faces. Repeat Step 3 using the two clean faces.



long, overlapping unidirectional strokes. Each face of the wiper will be used for one straight stroke. Turn the wiper over and make a second stroke.





Wiper may be completely unfolded, reversed, and refolded beginning again at Step 1 to enclose the four contaminated faces and expose the four remaining clean faces.

Classification numbers (N)		Maximum concentration limits (particles / m³) for particles equal to and larger than the sizes listed below						Cleanroom Rules:
	0.1 Mi	cron (µm)	0.2 Micron (µn) 0.3 Micron (μm)	0.5 Micron (µm)	1 Micron (µm)	5 Micron (µm)	
I	ISO 1	10		2				 Always follow written SOPs
I	ISO 2	100	2	4 10	4			 Remove watches, jewelry,
I	ISO 3	1,000	23	7 102	35	8		nail polish and cosmetics
I	ISO 4	10,000	2,37	0 1,020	352	83		 Don't eat, chew gum, or drink
I	ISO 5	100,000	23,70	0 10,200	3,520	832	29	 Do not sit or lean on any work
I	ISO 6 1	,000,000	237,00	0 102,000	35,200	8,320	293	
I	ISO 7		· · · · · · · · · · · · · · · · · · ·		352,000	83,200	2,930	 Work with calm and slow
I	ISO 8				3,520,000	832,000	29,300	movements
I	ISO 9				35,520,000	8,320,000	293,000	
				Contamina	ation Fundam	nentals		
Sources of Contamination					In	tion		
Personnel Processes	• Objects • Tools	• Flı • Eq	uids uipment	 Skin particles Fibers 	• Dust • Grease	• Bacteria • Viruses	• Metals • Fungi	 Nonvolatile Residues Ions

