

You cannot disinfect, sanitize, or protect a surface that has not been physically cleaned.

Cleaning effectiveness is driven by **physical contact and friction**; chemistry supports soil suspension but cannot replace removal.



IMPROVING PRESSURE CONSISTENCY

Without prescribing technique or training steps, pressure consistency improves when:

- **Contact surface area is uniform** — wiping media maintains consistent contact across the surface
- **Wiping media is replaced before overload** — saturated or overused wipes reduce effective soil removal
- **The system limits user variability** — processes and tools reduce dependence on individual technique

PRESSURE VARIABILITY



RESOILING LOOP



MATERIAL DURABILITY MATTERS

Mechanical cleaning requires a wiping material that can tolerate pressure and friction without degrading.

When wiping media breaks down under load:

- Contact pressure becomes *inconsistent*
- Fibers **shed or tear**, redistributing soil
- Operators instinctively **reduce pressure**, limiting removal

This is why engineered cleaning wipers are fundamentally different from consumer paper towels designed for hand drying:



Effective mechanical action depends not just on pressure — but on material durability that allows pressure to be applied consistently.

These factors reinforce system design over individual effort and help reduce residue, re-soiling, and repeat work.

Scientific References

The concepts illustrated in this document are grounded in established, publicly available cleaning and public health guidance. Exact reference links are provided below:

Centers for Disease Control and Prevention (CDC) — Surface cleaning fundamentals emphasizing physical soil removal and the role of friction/contact prior to sanitizing or disinfecting:
<https://www.cdc.gov/hygiene/cleaning/index.html>
<https://www.cdc.gov/infection-control/hcp/environmental-cleaning/index.html>

ISSA (The Worldwide Cleaning Industry Association) — Specific, publicly available ISSA resources that address mechanical action, cleaning sequence, and process consistency include:

<https://www.issa.com/articles/why-cleaning-is-not-disinfecting>
<https://www.issa.com/articles/cleaning-times-what-you-need-to-know>
<https://www.issa.com/standards/cims>