

Summary of Guidelines for Decontamination of PPE for Reuse as per CDC, OSHA, and Manufacturer Recommendations

PPE	Approved Decontamination Methods Methods that are <u>NOT</u> Recommended
Disposable masks (N95-type filtering face pieces):	 ✓ Use 5 masks and wear a different one each day, storing the masks in a breathable plastic bag while not in use¹ ✓ Hydrogen Peroxide Vapor (HPV) enclosed system for 25 minutes⁵ ✓ Ultraviolet Germicidal Irradiation (UVGI) with UV-C for 30 minutes³ ✓ Steam Bath for 10 minutes¹ ✓ Warm Moist Heat (WMH) from an Oven with water reservoir at 170°F for 30 minutes¹ Alcohol Bath, soaking and drying (removes static charge in microfibers, reducing filtration efficiency)⁴ ★ Dry heat/microwaves (burns/melts components)¹
Reusable Half-Face and Full-Face Air Purifying Respirators	 ✓ Soap and Warm Water, Scrub with Soft Brush⁹ ✓ Soak in Bleach Solution for 2 minutes, then Rinse with Water and Dry⁹ ✓ Wipe with Moist Towelettes⁹ ✓ *P100 filters should be changed out according to the manufacturer's recommended change out schedule; this is different for each brand, model, and situation ✗ Alcohol Wipes or Baths (damaging to respirator components)⁹ ✗ Solvent-based Cleaners (damaging to respirator components)⁹ ✗ Washing or Cleaning P100 filters/cartridges (damages the filter material)
Disposable Gloves (not best practice, but may be necessary due to limited supplies)	 ✓ While wearing the gloves, wash with soap and warm water for at least 20 seconds, then dip into 1:100 bleach solution for 1 minute, then wash any residue off with soap and warm water and dry¹⁰ ✓ If gloves need to be reused over multiple days, wash gloves in soap and water, then let soak in the soapy water overnight; check for holes by filling gloves with water and look for leaks (allow to dry out or use talcum powder)¹⁰
Protective Clothing (gowns, aprons, coveralls)	 ✓ If the product can handle bleach, soak in 1:100 bleach solution for 30 minutes then overnight in soapy water¹¹ ✓ Follow manufacturer instructions ✓ Reusing damaged clothing¹¹ Washing and drying in household washing machines and dryers¹¹
Info Links for PPE Decon:	 https://www.cdc.gov/coronavirus/2019-ncov/hcp/ppe-strategy/decontamination-reuse-respirators.html https://www.cdc.gov/niosh/topics/hcwcontrols/recommendedguidanceextuse.html https://www.ara.com/sites/default/files/MitigateShortageofRespiratoryProtectionDevices 3.pdf https://m.box.com/shared_item/https%3A%2F%2Fstanfordmedicine.box.com%2Fv%2Fcovid19-PPE-1-1 https://www.safety.duke.edu/sites/default/files/N-95_VHP-Decon-Re-Use.pdf https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2781738/ https://www.cdc.gov/niosh/nioshtic-2/20033292.html https://www.osha.gov/laws-regs/regulations/standardnumber/1910/1910.134AppB2 https://multimedia.3m.com/mws/media/473937O/3mtm-cleaning-reusable-respirators.pdf https://apps.who.int/iris/bitstream/handle/10665/65012/WHO_EMC_ESR_98.2_%28sections5-6%29.pdf?sequence=2&isAllowed=y https://www.cdc.gov/infectioncontrol/guidelines/environmental/background/laundry.html

Disclaimer: Decontaminating PPE must be performed in a clean environment. Disposable PPE is not intended to be decontaminated and reused; this should only be done when supplies are limited to the point where reusing is the only option available. TES, Inc. has gathered this information to assist individuals and organizations make their own decisions about decontaminating and reusing PPE. Before implementing any PPE reuse program or policy, additional research should be conducted by the relevant parties to ensure the process is being performed properly. Disposable PPE must NOT be reused if used during aerosol generating activities or has been contaminated with blood, respiratory or nasal secretions, or other bodily fluids from patients. TES, Inc. is not responsible for any injury or illness caused by following the guidelines set forth in this document.