

Cleaning & Sanitizing Respirators with D-Lead[®] Respirator & Laundry Detergent Fast - Efficient - Economical

ESCA Tech products can be used to improve the speed and efficiency of your respirator cleaning program (1910.134). Respirators can be washed in a top load clothes washer (preferred) or a dishwasher. Clothes washers are available in various sizes. In an inexpensive super capacity washer you can clean and sanitize 30 to 40 half face piece respirators in under 30 minutes with cold water.

Materials: D-Wipe[®] Towels
 Delicate Clothes Bag
 D-Lead[®] Respirator & Laundry Detergent # 3235ES
 D-Bact[™] Disinfectant # 7102ES

Procedure:

1. Remove filters or cartridges and clean the exterior housing of them with a D-Wipe[®] Towel.
2. Sort the respirator face pieces by size, small in one bag, mediums in another, etc.
3. A super capacity washer will hold 30 to 40 half face pieces, or 10 to 20 full face pieces. A standard capacity washer will hold about 20 to 30 half face pieces.
4. Set the washer on the delicate cycle for cold water wash and cold water rinse.
5. For a super capacity washer, add 8 ounces (235 ml) of D-Lead[®] Respirator & Laundry Detergent # 3235ES to the wash cycle. For a standard capacity add 6 oz (175 ml).
6. Add 4 ounces (120 ml) of D-Bact[™] Disinfectant # 7102ES to the fabric softener reservoir (it will automatically feed during the first rinse cycle).
7. Evenly load the respirators into the tub, then start the DELICATE wash cycle.
8. Run the washer through 1 wash cycle (D-Lead), 1 rinse cycle (D-Bact) and a final rinse with cold water.
9. After the spin cycle, remove the bags, drain any extra water in the face pieces.
10. If drying in a clothes dryer, tumble dry on the lowest temperature setting (exhaust air temperature should not exceed 100° F) and delicate setting.
11. Alternately, hang on the clothes line in a clean area.
12. When the respirators are dry, inspect all of the valves, straps, face seal, and replace parts in accordance with manufacturer's recommendations.
13. Install filters or cartridges.
14. Place in plastic bags with an individually packaged D-Wipe[®] Towel for use in mid shift clean up.

- Notes: a) For very hard water use 25% more D-Lead[®].
- b) If drying in a clothes dryer, be aware that the air intake for the clothes dryer will be inside the laundry room, and potentially re-contaminate the respirators. The dryer should not be the same one used for work clothes, as the residual dirt on the clothes will contaminate the dryer drum, and then the respirators. Tumbling respirators in a dryer will shorten their life and full face respirators may crack the lenses.
- c) If lead is a contaminant of concern, respirators can be tested with the D-Lead[®] Lead Test Kit.

Dishwasher: A dishwasher will hold about 20 half face pieces. Most dishwashers have a brief pre-rinse cycle, followed by a longer wash cycle. You need to add the D-Lead[®] Respirator & Laundry Detergent (about 5 - 6 ounces) along with the D-Bact[™] about (2 ounces) after the end of the pre-rinse cycle and use the longer wash cycle for cleaning. Use cold water (disconnect the hot water feed line). Set the drying cycle to air dry, as air temperatures over 100 F can distort face pieces. Note: Dishwashers wash with high pressure and clothes washers wash with gentle agitation.

D-Bact[™] Disinfectant Cleaner and D-Lead[®] Respirator & Laundry Detergent are chelate free.
D-Bact[™] Disinfectant Cleaner is an EPA registered surface disinfectant - registration #: 1839-103-74928