

LIFE CYCLE ASSESSMENT OF CLEANROOM COVERALLS

REUSABLE & DISPOSABLE



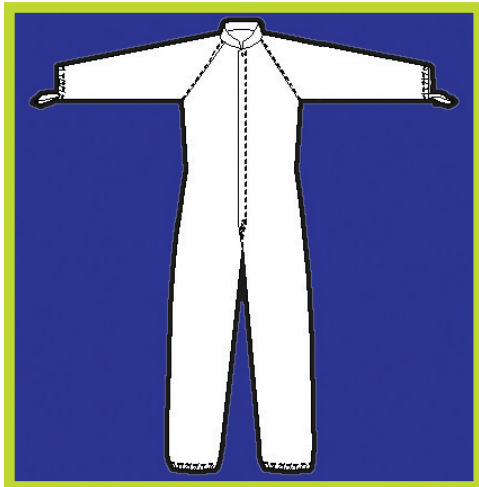
Read the complete study in the PDA Journal of Pharmaceutical Science and Technology.

CLEANROOM COVERALLS LIFE CYCLE ENVIRONMENTAL RESULTS



Cleanroom coverall life cycle results continue the conclusions from six other reusable/disposable studies that show reusables provide a significant improvement in energy, environmental footprint, water, and energy-associated emissions.

WHAT IS A CLEANROOM COVERALLS LIFE CYCLE ASSESSMENT?



Surgical gowns were studied thoroughly from material extraction from the earth, to the manufacture of the gown product, to use including laundry and sterilization, to final end-of-life. This scope and the results emphasize transparent, science-based life cycle assessment.

LIFE CYCLE OF GAMMA STERILIZATION FOR CLEANROOM COVERALLS

Comparing the two representative disposable coveralls, the flash spunbonded HDPE coverall (a DuPont Tyvek material) provides a **43% reduction** in natural resource energy consumption and in the environmental impact for energy-associated emissions including CO2 eq (an improvement) than the spunbond-meltblown-spunbond PP coverall (Kimberly Clark Kimtech material). The water consumption for the flash spunbonded HDPE coverall provides about a **12% reduction** in the spunbond-meltblown-spunbond PP coverall.

REUSABLE CLEANROOM COVERALLS DRAMATICALLY REDUCE THE ENVIRONMENTAL FOOTPRINT

When you choose reusable Cleanroom Coveralls instead of disposable alternatives you achieve a:



23-56% Reduction in lower natural resource energy consumption

27-57% Reduction in lower greenhouse gas emissions (measured as CO2 eq emissions)

73-77% Reduction in lower total water consumed (blue water*)

94-96% Reduction in lower solid waste generation at healthcare facility



End users can count these improvements as a credit toward improving their sustainability programs.