

Experimental Parameters for Small-scale Cleaning Characterization Part I: Dilution of Process Fluids During Cleaning

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Methodologies for estimating experimental parameters for small-scale cleaning characterization studies are described in this series: dilution of process fluids (e.g., process soil, cleaning solution, or rinse water) during cleaning is discussed in this paper; worst-case fluid velocity and soil load will be discussed in subsequent parts.

Dilution of the process fluid during cleaning was estimated to be on the order of 10^{16} for a typical cleaning cycle and 10^5 for intermediate cleaning steps. These dilution factors are used to estimate the concentration of impurities in the final rinse and to simulate worst-case cleaning conditions for cleanability and inactivation studies.

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