

Dräger Infographic

Cleaning

4 parameters that determine cleaning effectiveness



1 Temperature

Temperature affects the efficiency of the cleaning products that are used. High temperatures facilitate the cleaning process, but some materials are not able to withstand such temperatures. Size and functionality of the equipment should also be considered.

2 Duration

This means the total time required for cleaning. The duration depends on the type of surface that needs to be cleaned, the type of contamination, the cleaning agents used and whether the cleaning is done manually or mechanically.



3 Cleaning agents

Finding the appropriate cleaning agents and following the dosage recommendation of the manufacturer is of vital importance. This is the only way to achieve optimal results without harming the environment or health of the professionals who are in contact with these agents.

4 Cleaning technique

This refers to the tools used for manual and machine cleaning, such as the brushes of a dishwasher. It is important to understand the physical effects of the chosen technique, because an improper process can lead to premature wear.



In 1959 Dr. Herbert Sinner, a German chemical engineer heading the development of detergents at Henkel, illustrated the cleaning process as an interaction of four parameters: temperature, time, chemicals, and mechanical impact.

The so-called Sinner's circle is still being used when describing cleaning processes.

The four parameters are variable and can be combined depending on the degree of the contamination of the contaminated surface and on available resources.

If one parameter is reduced, it should be compensated for by one or more of the other parameters to achieve an equally high-quality result.

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