Is the cleanliness of your components sufficient for all subsequent processes?

Find out now!

www.vacom-vacuum.com
Know the contamination level

The cleanliness of your components (residual dirt on surfaces) can be determined and the associated contamination level can be evaluated. Wherever the cleanliness of components is important – whether for an incoming inspection, the status for delivery, or during preliminary, interim, or final purification – for a high process stability the contamination level must be known.

Optimize the cleaning process

With the knowledge of the component’s history, state of delivery, or contamination level the cleaning processes are stable and can be customized. Thus, cleaning processes are reproducible and optimized for your requirements.

Guarantee the cleaning results

With the inspection of the cleaning results the state of cleanliness can be guaranteed. A traceable documentation ensures a reproducible quality for your customers.

VIDAM®

In many industries, cleanliness is an important quality feature for reproducible processes. Knowing the cleanliness of components is a basic requirement to evaluate the effectiveness and efficiency of the cleaning process and thus to be able to guarantee a high and stable quality of the final product.

VIDAM® is a cleanliness measuring device which determines film contaminations through vacuum induced desorption of the entire component’s surface. Both single components and assemblies of any geometric shapes can be analyzed non-destructively and fully automatic.

With spectral measurement methods, contaminations on surfaces can be clearly identified and causes can be assigned (e.g., residues of production supplies and cleaning detergents). Furthermore, VIDAM® provides absolute and quantitative measurement values, which enables the establishment of appropriate limits.

Thus, the production and purification process can be optimized to ensure a sufficient component cleanliness for all subsequent processes. This is the basic requirement for a controllable, reproducible, and guaranteed quality.
Example 1: Suboptimal cleaning of areas that are difficult to access, e.g. threaded holes

For many constructions difficult-to-reach component geometries, like threaded blind holes, are necessary for the applications. Those parts are especially difficult to clean. Whether or not the cleaning process was sufficient can hardly be controlled.

VIDAM® guarantees an exact determination of cleanliness, even for complex geometries. Necessary cleaning steps can be adjusted to the expected contamination level.

Suboptimal cleaning

The spectrum shows an obvious residual contamination which is caused by residues in the threaded blind holes.

Optimal cleaning

The customer’s specifications are met with adjusted cleaning steps. Thereby, negative influences on the subsequent processes can be avoided.

Optimal cleaning

Example 2: Unadjusted cleaning agent for the removal of production aids

Often production residues or leftovers of cleaning agents cannot be sufficiently removed from the surface. Both have a significant influence on all subsequent processes. Therefore, the proof of the cleaning quality remains a necessary step.

VIDAM® makes it possible to characterize your components after the cleaning process and allows to draw conclusions about the cleaning success.

Measuring the component

Spectrum of the cleanliness status of an examined component. Residues of accompanying substances and of cleaning agents has been proven. Both indicate an unadjusted cleaning process.

Production supplies

Spectrum of cooling lubricants which are used in production. They have the typical periodicity of 14 amu, which is caused by long-chain CH₂ compounds.

Cleaning agent

Spectrum of the used cleaning agent with its characteristic peaks.

Guarantee the cleaning results

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