

# VIDAM®

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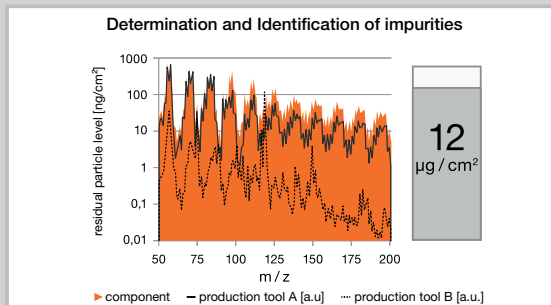
Cleanliness measuring device for film-type contaminants



- ▶ Quantitative results ( $\text{g}/\text{cm}^2$ )
- ▶ Non-destructive testing
- ▶ Fully -automated measurement
- ▶ Comparable results
- ▶ Residual dirt identification

TREAMS

VIDAM® is a cleanliness measuring device which determines chemical-film-type contaminants of the entire product surface by **vacuum induced desorption**. Single components as well as assemblies can be analyzed – **non-destructively** and **fully automated**. As a result of spectral measurement, contaminants can be clearly identified and assigned to their causes. Furthermore, **VIDAM®** provides absolute and quantitative values in gram per surface or component, which enables the establishing of appropriate evaluation limits.



The diagram shows the comparison of signatures of contaminated components with two production supplies “FHM A” and “FHM B”. The matching signatures identify FHM A as the contamination cause. The residual amount of dirt is 12 µg/cm<sup>2</sup>.

## Technical data

		VIDAM® <i>pre</i>	VIDAM® <i>fine</i>
<b>Detection limit (absolute)</b>		50 µg	5 µg
<b>Permitted materials</b>		metal, glass, ceramics, plastics	
<b>Output of test report results</b>	<ul style="list-style-type: none"> <li>▶ Direct display</li> <li>▶ Measurement report</li> <li>▶ Raw data</li> </ul>	testing against limits PDF und XML CSV	
<b>Operation over</b>		17" touchscreen / keyboard / trackball	
<b>Measuring period</b>	<ul style="list-style-type: none"> <li>▶ Comparative measurements</li> <li>▶ Identification of contamination</li> <li>▶ Absolute, quantitative measuring</li> </ul>	from 15 min. from 30 min. from 180 min.	
<b>Cleaning of measuring chamber</b>		fully-automated	
<b>Cleaning duration</b>		5–15 minutes	4–8 hours
<b>Connections and required media</b>	<ul style="list-style-type: none"> <li>▶ Power connection</li> <li>▶ Compressed air</li> <li>▶ Reference gas</li> </ul>	400 V / AC, 50 HZ, 16 A / 32 A 5 bar / quality: ISO8573-1:2010 quality 7.0	
	<ul style="list-style-type: none"> <li>▶ Nitrogen</li> <li>▶ Town water</li> </ul>	-	1 bar / purity 99.8 % supply and return lines
<b>Ambient conditions</b>	<ul style="list-style-type: none"> <li>▶ Temperature</li> <li>▶ Air humidity</li> <li>▶ Cleanroom compatibility</li> </ul>	+ 10 °C to + 40 °C 20% to 70% optional	

## Example of construction

<ul style="list-style-type: none"> <li>▶ Size of the measuring chamber</li> <li>▶ Device dimensions (LxWxH)</li> <li>▶ Weight of measuring device</li> </ul>	inside diameter: 250 mm, length: 500 mm 1700 x 1050 mm x 1550 mm 500 kg
<p>The measuring device is specifically designed for your application (Among others, the following parameters are taken into consideration: size, geometric shape, number of components, material and grade of contamination.)</p>	

## In combination with VIDAM® we offer you...

Relabel and qualified support	Comprehensive maintenance packages and services	Trainings for operating, technical and maintenance staff
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