

Dr. Schutz GmbH Report No. DR 2203-1309

## Cleanroom Suitable **Materials**

**ESD TopCoat** 

Outgassing VOC/SVOC ISO-ACC<sub>m</sub> Class < -9.6 / < -9.6

## **FLOORING & COATING**

## Single product **Outgassing Behavior** VOC/SVOC

## **Qualification Certificate**

We hereby certify that the material stated above, provided by

Dr. Schutz GmbH Hessisch Oldendorf, Germany

has been awarded the Fraunhofer IPA CSM Certificate of Qualification with the report number DR 2203-1309.

The outgassing behavior of ESD TopCoat (color: transparent) at the stated temperatures was investigated according to VDI 2083 Part 17 and ISO 14644-15. Based on the outgassing rates determined for the specific surfaces, the following material classification was made for the corresponding Contaminant Category:

Contaminant Category (x)	<b>SER<sub>a</sub>¹¹ 23°C</b> [g/m²s]	SER <sub>a</sub> 1) 90 °C [g/m²s]	ISO-ACC <sub>m</sub> Class (x) based on 23°C
VOC	< 2.8 x 10 <sup>-10</sup>	5.1 x 10 <sup>-7</sup>	< -9.6
SVOC	< 2.8 x 10 <sup>-10</sup>	9.8 x 10 <sup>-9</sup>	< -9.6
Amines	< 2.8 x 10 <sup>-10</sup>	1.4 x 10 <sup>-8</sup>	
Organophosphates	< 2.8 x 10 <sup>-10</sup>	< 1.7 x 10 <sup>-9</sup>	
Siloxanes	< 2.8 x 10 <sup>-10</sup>	< 1.7 x 10 <sup>-9</sup>	
Phthalates	< 2.8 x 10 <sup>-10</sup>	< 1.7 x 10 <sup>-9</sup>	

<sup>1)</sup>SER<sub>a</sub>: Area-specific emission rate <sup>1)</sup>SER<sub>a</sub>: Unit-specific emission rate

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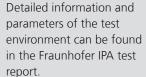
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on behalf of **John Sources**Dr.-Ing. Udo Gommel, Project Manager Fraunhofer If



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