

FS-BF GmbH & Co. KG Report No. FS 1711-963

Cleanroom[®] Suitable Materials

Cleanroom Silicon PX 3433.1 Outgassing VOC/SVOC ISO-ACC_m Class -5.4/-7.5

FLOORING & COATING

Outgassing Behavior VOC/SVOC

DUPLICAT

Qualification Certificate

We hereby certify that the material stated above, provided by

FS-BF GmbH & Co. KG Reichshof-Hahn, Germany

has been awarded the Fraunhofer IPA CSM Certificate of Qualifcation with the report number FS 1711-963.

The outgassing behavior of Cleanroom Silicon PX 3433.1 (ivoire) at the stated temperatures was investigated according to VDI 2083 Part 17. Based on the outgassing rates determined for the specific surfaces, the following material classification was made for the corresponding Contaminant Category:

Contaminant Category (x)	SER1) 23°C [g/m²s]	SER ¹⁾ 90°C [g/m²s]	ISO-ACC _m Class (x) based on 23°C
VOC	4.3 x 10⁻ ⁶	1.3 x 10 ⁻⁵	-5.4
SVOC	3.1 x 10 ⁻⁸	3.4 x 10 ⁻⁷	-7.5
Amines	< 2.8 x 10 ⁻¹⁰	7.4 x 10 ⁻⁹	
Organophosphates	< 2.8 x 10 ⁻¹⁰	< 4.6 x 10 ⁻⁹	
Siloxanes	1.3 x 10 ⁻⁶	5.6 x 10 ⁻⁶	
Phthalates	< 2.8 x 10 ⁻¹⁰	< 4.6 x 10 ⁻⁹	

¹⁾SER_a: Area-specific emission rate

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Stuttgart, February 14, 2018 Place, date of first document issued

Place, current date on behalf of Dr.-Ing. Udo Gommel, Project manager Fraunhofer IPA

This document only applies to the named product in its original state and is valid for a period of 5 years from the date the first document was issued. The document can be verified under www.tested-device.com.

Detailed information and parameters of the test environment can be found in the Fraunhofer IPA test report.

