

Forbo-Novilon B.V. Report No. FO 2207-1329

R Cleanroom Suitable **Materials**

Sphera Element **Outgassing Inorganic Acids** ISO-ACC Class < -8.5

FLOORING & COATING

Single product **Outgassing Behavior Inorganic Acids**

Qualification Certificate

We hereby certify that the material stated above, provided by

Forbo-Novilon B.V. KA Coevorden, The Netherlands

has been awarded the Fraunhofer IPA CSM Certificate of Qualification with the report number FO 2207-1329.

The outgassing behavior of Sphera Element homogeneous vinyl (color: shell) 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)	SER_a ¹⁾ 23 °C [g/m²s]	SER ¹⁾ 90 °C [g/m²s]	ISO-ACC _m Class (x) based on 23°C
HF	< 2.9 x 10 ⁻⁹	< 2.9 x 10 ⁻⁹	< -8.5
HCI	< 2.9 x 10 ⁻⁹	< 2.9 x 10 ⁻⁹	< -8.5
HBr	< 2.9 x 10 ⁻⁹	< 2.9 x 10 ⁻⁹	< -8.5
HNO ³	< 2.9 x 10 ⁻⁹	< 2.9 x 10 ⁻⁹	< -8.5
H ₃ PO ₄	< 2.9 x 10 ⁻⁹	< 2.9 x 10 ⁻⁹	< -8.5
H ₂ SO ₄	< 2.9 x 10 ⁻⁹	< 2.9 x 10 ⁻⁹	< -8.5

Stuttgart, September 23, 2022

on behalf of Melo Somme

¹⁾SER_a: Area-specific emission rate

FO 2207-1329 Report No. first document

Place, date of first document issued

Place, current date

Report No. current document



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.