

Forbo Novilon Report No. FO 2004-1170

R Cleanroom Suitable **Materials**

Sphera EC **Outgassing VOC/SVOC** ISO-ACC Class < -9.6 / < -9.6

FLOORING & COATING

Single product **Outgassing Behavior** VOC/SVOC

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.



We hereby certify that the material stated above, provided by

Forbo Novilon B.V. Coevorden, the Netherlands

has been awarded the Fraunhofer IPA CSM Certificate of Qualification with the report number FO 2004-1170.

The outgassing behavior of the Sphera EC (450000) 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 ¹⁾ 23 °C [g/m²s]	SER ¹⁾ 90 °C [g/m²s]	ISO-ACC _m Class (x) based on 23°C
VOC	²⁾ not detectable	4.4 x 10 ⁻⁷	< - 9.6
SVOC		9.4 x 10⁻ ⁸	< -9.6
Amines		5.0 x 10 ⁻⁸	
Organophosphates		³⁾ not detectable	
Siloxanes			
Phthalates			

¹⁾ SER₂: Area-specific emission rate ²⁾ detection limit: 2.8 x 10^{-10 3)} detection limit: 1.7 x 10⁻⁹

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Place, current date on behalf of Uclo Sources Dr.-Ing. Udo Gommel, Project Manager Fraunh