



# Cleanroom<sup>®</sup> Suitable Materials

Forbo Giubiasco SA  
Report No. FO 1702-889

Colorex EC  
Outgassing Behaviour (NH<sub>3</sub>)  
ISO-ACC<sub>m</sub> Class -8.5

## FLOORING & COATING

### Outgassing Behavior Ammoniac

### Qualification Certificate

We hereby certify that the material stated above, provided by

**Forbo Giubiasco SA**  
Giubiasco, Switzerland

has been awarded the Fraunhofer IPA CSM Certificate of Qualification with the report number FO 1702-889.

The outgassing behavior of Colorex EC (color: everest) 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 group:

Contaminant Category (x)	SER <sub>a</sub> <sup>1)</sup> 23 °C [g/m <sup>2</sup> s]	SER <sub>a</sub> <sup>1)</sup> 90 °C [g/m <sup>2</sup> s]	ISO-ACC <sub>m</sub> Class (x) based on 23 °C
Ammoniac (NH <sub>3</sub> )	3.0 x 10 <sup>-9</sup>	9.5 x 10 <sup>-9</sup>	<b>-8.5</b>

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

DUPLICATE

Detailed information regarding specific product data such as date of manufacture, color, and serial number as well as test environment and parameters can be obtained from the CSM test report issued by the Fraunhofer-Gesellschaft.

FO 1702-889  
Report No. first document  
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Report No. current document

Stuttgart, August 10, 2017  
Place, date of first document issued  
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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](http://www.tested-device.com).