



nora systems GmbH  
Report No. NO 2302-1393

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

**noracare seneo**  
Outgassing VOC/SVOC  
ISO-ACC<sub>m</sub> Class -7.3 / <-9.6

## FLOORING & COATING

### Single product Outgassing Behavior VOC/SVOC

### Qualification Certificate

We hereby certify that the material stated above, provided by

**nora systems GmbH**  
Weinheim, Germany

has been awarded the Fraunhofer IPA CSM Certificate of Qualification with the report number NO 2302-1393.

The outgassing behavior of noracare seneo (color: 7204) 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 <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 |
|--------------------------|---|---|---|
| VOC                      | 5.6 x 10 <sup>-8</sup>                                    | 5.2 x 10 <sup>-7</sup>                                    | -7.3  |
| SVOC                     | < 2.8 x 10 <sup>-10</sup>                                 | < 1.7 x 10 <sup>-9</sup>                                  | <-9.6   |
| Amines                   | < 2.8 x 10 <sup>-10</sup>                                 | < 1.7 x 10 <sup>-9</sup>                                  | --  |
| Organophosphates         | < 2.8 x 10 <sup>-10</sup>                                 | < 1.7 x 10 <sup>-9</sup>                                  | --  |
| Siloxanes                | 1.2 x 10 <sup>-8</sup>                                    | 1.0 x 10 <sup>-7</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

NO 2302-1393  
Report No. first document

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Report No. current document

Stuttgart, May 17, 2023  
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).

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