



valid until: April 24, 2029

# Fraunhofer

## TESTED<sup>®</sup> DEVICE

ebm-papst  
Fan impeller Scolefin 34 G14-9  
**Report No. EB 2403-1502**

### Single product Outgassing Behavior Inorganic Acids

### Qualification Certificate

This is to certify that the product mentioned above, provided by  
**ebm-papst Mulfingen GmbH & Co. KG**  
Mulfingen, Germany

has been awarded a Fraunhofer certificate TESTED DEVICE  
bearing the report number EB 2403-1502.

The outgas of the material of the Fan impeller Scolefin 34 G14-9 (color: black) of the Fan impeller Scolefin 34 G14-9 (color: **xxx**) 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
HF	< 2.9 x 10 <sup>-9</sup>	< 2.9 x 10 <sup>-9</sup>	< -8.5
HCl	< 2.9 x 10 <sup>-9</sup>	< 2.9 x 10 <sup>-9</sup>	< -8.5
HBr	< 2.9 x 10 <sup>-9</sup>	< 2.9 x 10 <sup>-9</sup>	< -8.5
HNO <sub>3</sub>	< 2.9 x 10 <sup>-9</sup>	< 2.9 x 10 <sup>-9</sup>	< -8.5
H <sub>3</sub> PO <sub>4</sub>	< 2.9 x 10 <sup>-9</sup>	< 2.9 x 10 <sup>-9</sup>	< -8.5
H <sub>2</sub> SO <sub>4</sub>	< 2.9 x 10 <sup>-9</sup>	< 2.9 x 10 <sup>-9</sup>	< -8.5

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

EB 2403-1502  
Report No. first document

Stuttgart, April 24, 2024  
Place, date of first document issued

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Report No. current document

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Place, current date

on behalf of   
Dr.-Ing. Frank Bürger, 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.