



valid until: May 20, 2031

Fraunhofer

TESTED[®] DEVICE

Ziehl-Abegg SE
ZAmid PAPA LGF40 blue
Report No. ZI 2603-1743

DUPLICATE

Statement of
Qualification

Single product
Outgassing Behavior
Ammonia

Statement of Qualification · Single product

Customer
 Ziehl-Abegg SE
 Heinz-Ziehl-Strasse
 74653 Künzelsau
 Germany

Tested product

Category: Materials
 Subcategory: Plastics
 Product name: ZAmid PAPA LGF40 blue
 (manufacturing date: 3/2026; color: blue; article number: 00414179)

Test result / Classification

The outgassing behavior of ZAmid PAPA LGF40 blue the stated temperatures was investigated according to 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/(m ² * s)]	ISO-ACC _m Class (x)
Ammonia (NH ₃)	< 2.9 x 10 ⁻⁹	< -8.5

¹⁾The emission rate is calculated using the detected concentration based on the external standard calibration, the analyzed sample surface area or number of samples, the volume of the impingement solution and the sampling duration.

Emission chamber measurements with impingement in combination with ion chromatography (IC)

Standards/guidelines: ISO 14644-8, -15
 The norms stated generally refer to the version valid at the time of the tests.

Test equipment:

- Measuring station:.....Metrohm Professional IC 850
- Sampling chamber:.....Markes International µCTE

Sample storage:

- Pre-conditioning:
 - Cleanroom Air Cleanliness Class (according to ISO 14644-1):..... ISO 1
 - Airflow velocity:.....0.45 m/s
 - Airflow type:..... vertical laminar flow
 - Temperature:22 °C ± 0.5 °C
 - Relative humidity: 45 % ± 5 %
 - Purified air: VOC-filtered

Test procedure parameters: Outgassing test temperature: 23 °C

The measuring devices used for the qualification tests are calibrated at regular intervals; their results can be traced back to national and international standards. In cases where no national standards exist, the test procedure implemented complies with the technical regulations and norms applicable at the time of the test. The relevant documentation can be viewed on request at any time.

DUPLICATE

DUPLICATE