



Fraunhofer
TESTED[®]
DEVICE
Bimos - Interstuhl
LABIST9123E-MG01-20017910
Report No. IN 2510-1676

Statement of
Qualification

Single product
Particle Emission
in Cleanroom
(atmospheric)

DUPPLICATE

Statement of Qualification • Single product

Customer

Interstuhl Büromöbel GmbH & Co. KG
Brühlstrasse 21
72469 Meßstetten-Tieringen
Germany

Test result / Classification

The chair LABIST 9123E - MG01 - 20017910 is suitable for use under the specified test parameters (room temperature: $22^{\circ}\text{C} \pm 0.5^{\circ}\text{C}$; relative humidity: $45\% \pm 5\%$) in cleanrooms of the following Air Cleanliness Classes according to ISO 14644-1:

Test parameter(s)	Air Cleanliness Class
Seat ($F = 1200\text{ N}$; 12 cycles/min)	4
Backrest ($F = 320\text{ N}$; 12 cycles/min)	4
Overall result	4

Tested product

Category: Working Place and Operator
Subcategory: Chairs
Product name: LABIST 9123E - MG01 - 20017910
(manufacturing date: 5/22/2025; color: black; article number: 20017910;
serial number: 9123E)

Please note: Transport damages, incorrect installation, oil leakage, aging behavior, corrosion etc. can influence the test result.

Random sampling of particle emissions (airborne) at representative sites in cleanroom under atmospheric conditions

Standards/guidelines: ISO 14644-1, -14
The norms stated generally refer to the version valid at the time of the tests.

Test equipment: Optical particle counter:
LasAir II 110 and LasAir III 110 with measuring ranges $\geq 0.1\text{ }\mu\text{m}$, $\geq 0.2\text{ }\mu\text{m}$, $\geq 0.3\text{ }\mu\text{m}$, $\geq 0.5\text{ }\mu\text{m}$, $\geq 1.0\text{ }\mu\text{m}$ and $\geq 5.0\text{ }\mu\text{m}$

Test environment parameters:

- Cleanroom Air Cleanliness Class (according to ISO 14644-1): ISO 1
- Airflow velocity: 0.45 m/s
- Airflow pattern: vertical laminar flow
- Room temperature: $22^{\circ}\text{C} \pm 0.5^{\circ}\text{C}$
- Relative humidity: 45% $\pm 5\%$

Test procedure parameters:

- Type of stress applied: pulsating vertical force
- Location of stress impact: midpoint of the seat/backrest
- Seat:
 - Force: $F = 1200\text{ N}$
 - Cycles: 12/min
- Backrest:
 - Force: $F = 320\text{ N}$
 - Cycles: 12/min

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.

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

Fraunhofer Institute for Manufacturing
Engineering and Automation IPA

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Stuttgart, November 12, 2025
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Business unit
Testing and Certification

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Report No. current document

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Place, current date

Nobelstrasse 12
70569 Stuttgart
Germany

on behalf of 
Dr.-Ing. Frank Bürger, head of business unit Testing and Certification

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