

Fraunhofer

TESTED® DEVICE

F.-W. Dauphin GmbH & Co. IS20170 846482 3202

Report No. DA 1605-826

Statement of Qualification

Particle Emission





Statement of Qualification

Customer Bürositzmöbelfabrik

Friedrich-W. Dauphin GmbH & Co.

Espanstrasse 29 91238 Offenhausen

Germany

Component tested

Working Place and Operator Category:

Subcategory: Chairs

Work chair IS20170 846482 3202 Product name:

(manufacturing date: 4/4/2016; upholstery: 3202/Velencia, A,

imitation leather; base: no. 84; castors: no. 82)

Random sampling of particle emissions (airborne) at representative sites

Standards/Guidelines:

Test devices:

Test environment parameters:

Test procedure parameters:

VDI 2083-9.1; ISO 14644-1

The norms stated generally refer to the version valid at the time of the tests.

Optical particle counter:

LasAir II 110 with measuring ranges $\geq 0.1 \,\mu\text{m}$, $\geq 0.2 \,\mu\text{m}$, $\geq 0.3 \,\mu\text{m}$, \geq 0.5 μ m, \geq 1.0 μ m and \geq 5.0 μ m

• (Cleanroom Air	Cleanliness	Class	(according to ISO	14644-1):	ISO 1
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•	• Airflow velocity:	0.45 m/s
•	Airflow pattern:	. vertical laminar flow

• Type of stress applied:pulsating vertical force • Location of stress impact: midpoint of the seat/backrest

- Cycles: 12/min Backrest:
- Force:F = 350 N



Test result/Classification

When operated under the specified test conditions, the work chair IS20170 846482 3202 is suitable for use in cleanrooms fulfilling the specifications of the following Air Cleanliness Class according to ISO 14644-1:

Test parameter(s)	Air Cleanliness Class
Seat (F = 1200 N; 12 Cycles/min)	4
Backrest (F = 350 N; 12 Cycles/min)	4
Overall result	4

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.

For further information about the test environment and parameters, please refer to the Fraunhofer IPA test report.

Fraunhofer Institute for Manufacturing Engineering and Automation IPA

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Stuttgart, June 30, 2016

Place, date of first document issued

This document only applies to the named product in an unchanged state and is valid from the date of issue for a period of 5 years. The document can be verified under www.tested-device.com.