

# Fraunhofer

# TESTED<sup>®</sup> DEVICE

F.-W. Dauphin GmbH & Co. IS20650 166481 0171

**Report No. DA 1512-795** 

Statement of Qualification

**Particle Emission** 





## **Statement of Qualification**

**Customer** Bürositzmöbelfabrik

Friedrich-W. Dauphin GmbH & Co.

Espanstrasse 29 91238 Offenhausen

Germany

**Component tested** 

Category: Working Place and Operator

Subcategory: Chairs

Product name: Work chair IS20650 166481 0171

(manufacturing date: 28/5/2016; upholstery: 0171/Tec profile, polyurethane, black, conductive; base: no. 16; castors: no. 81)

### 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 and LasAir III 110 with measuring ranges  $\geq$  0.1  $\mu$ m,  $\geq$  0.2  $\mu$ m,  $\geq$  0.3  $\mu$ m,  $\geq$  0.5  $\mu$ m,  $\geq$  1.0  $\mu$ m and  $\geq$  5.0  $\mu$ m

• Cl	leanroom Ai	r Cleanline	ss Class	(according	to ISO	14644-1	):IS0	) 1
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Airflow velocity:0.451	m
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Airflow pattern:..... vertical laminar flow

• Type of stress applied: ......pulsating vertical force

Location of stress impact: ..... midpoint of the seat/backrestSeat:

Forse

- Cycles: 12/min

Backrest:

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



### Test result/Classification

When operated under the specified test conditions, the work chair IS20650 166481 0171 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)	2
Backrest (F = 350 N; 12 Cycles/min)	3
Overall result	3



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

Department of Ultraclean Technology and Micromanufacturing

Nobelstrasse 12 70569 Stuttgart Germany Stuttgart, July 22, 2016

Place, date of first document issued

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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.

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