



**Fraunhofer**

**TESTED<sup>®</sup>  
DEVICE**

Score BV  
Saddle CLR

**Report No. SC 1407-716**

DUPLICATE

Statement of  
Qualification

Particle Emission

# Statement of Qualification

**Customer:** Score BV  
Feithspark 5  
9356 BX Tolbert  
The Netherlands

**Test result / Classification:**  
(in acc. with ISO 14644-1)

The chair Saddle CLR is suitable for use in cleanrooms fulfilling the specifications of Air Cleanliness Class 3.

## Component tested

Category: Working Place and Operator  
Subcategory: Chairs  
Product name: Saddle CLR  
(seat color: black; manufacturing date: April 17, 2014; batch number: 70663)

## Random sampling of particle emissions (airborne) at representative sites

Standards/Guidelines: VDI 2083-9.1; ISO 14644-1  
The norms stated refer to the relevant editions applicable at the time of the tests.

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

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
- 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
- Force:.....  $F = 1200\text{ N}$
- 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.

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

Stuttgart, September 29, 2014

Place, date of first document issued

Department of Ultraclean Technology  
and Micromanufacturing

--  
Place, current date

Nobelstrasse 12  
70569 Stuttgart  
Germany

  
i. A. Frank Bürger, Fraunhofer IPA

DUPLICATE

DUPLICATE