

# Fraunhofer

# TESTED® DEVICE

Hilti Entwicklungsgesellschaft mbH SF 6H-A22

Report No. HI 1803-1019

Statement of Qualification

Particle Emission





## **Statement of Qualification**

**Customer** Hilti Entwicklungsgesellschaft mbH

> Hiltistrasse 6 86916 Kaufering Germany

**Component tested** 

Working Place and Operator Category:

Subcategory: Work Equipment

Cordless 22V hammer drill driver SF 6H-A22 Product name:

(manufacturing date: 1/2018; color: red; article number: 2159681)

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

Standards/Guidelines:

Test devices:

Test environment parameters:

Test procedure parameters:

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

Optical particle counter:

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

<ul> <li>Cleanroom Air Cleanliness Class (according to ISO 14644-1):</li></ul>	O 1
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- Airflow pattern: vertical laminar flow

- Installation position: horizontal

### Test result/Classification

When operated under the specified test conditions, the cordless 22V hammer drill driver SF 6H-A22 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
Installation position: horizontal Number of revolutions: Setting II Capacity: Setting II (1600 rpm)	8
Overall result	8



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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on behalf of River

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