



Biuro Naukowo-Techniczne  
SIGMA

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Testing environment  
ISO Class 1

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# QUALIFICATION CERTIFICATE

ISO 14644-14 CLEANROOM SUITABILITY TEST: PARTICLE EMISSION TEST

**Product/Sample:** Elastomeric mat Fabcel B30  
**Customer name:** Fabreeka GmbH Deutschland  
**Customer address:** Hessenring 13 - 64572 Büttelborn, Deutschland



## Test results:

When operated under below specified test conditions, elastomeric mat **Fabcel B30** is suitable for use in cleanrooms fulfilling the specification of air cleanliness **ISO Class 3 - 9** according to ISO 14644-1:2015.

**Test method:** ISO 14644-14:2025

**Test device:** Laser Particle Counter TSI 9110; s/n: 91101102001

**Particles size channels:**  $\geq 0.1\mu\text{m}$ ;  $\geq 0.2\mu\text{m}$ ;  $\geq 0.3\mu\text{m}$ ;  $\geq 0.5\mu\text{m}$ ;  $\geq 1.0\mu\text{m}$ ;  $5.0\mu\text{m}$

## Test environment:

- Cleanroom Air Cleanliness: ISO Class 1 (according to ISO 14644-1:2015)
- Airflow velocity and pattern:  $0,45\text{m/s} \pm 20\%$ ; vertical laminar flow
- Temperature and relative humidity:  $21^\circ\text{C} \pm 2^\circ\text{C}$ ;  $50\% \pm 20\%$

## Stress conditions applied:

- Static load of 20 N

Detailed test results can be found in the BNT SIGMA test report no. E-260403-1.

**Laboratory:** BNT SIGMA, Section of Cleanroom Technology  
**Operator:** Krzysztof Zarczynski, Senior Validation Engineer  
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