



valid until: December 12, 2030

Cleanroom (atmospheric)

## Single product Particle Emission in Cleanroom (atmospheric)

This document only applies to the named product in its original state and is valid for a period of 5 years from the date the first document was issued. The document can be verified under [www.tested-device.com](http://www.tested-device.com).

Detailed information and parameters of the test environment can be found in the Fraunhofer IPA test report.

DUPPLICATED

# Fraunhofer

TESTED<sup>®</sup>  
DEVICE

Sung Engineering Co., LTD.  
ESD ThomPOD CL4205-3L  
Report No. SU 2512-1696

## Qualification Certificate

This is to certify that the product mentioned above, provided by

Sung Engineering Co., LTD.  
Cheongju-si, Republic of Korea

has been awarded a Fraunhofer certificate TESTED DEVICE bearing the report number SU 2512-1696.

The ESD ThomPOD CL4205-3L (color: white) was assessed in compliance with ISO 14644-14. When operated under the specified test conditions (room temperature:  $22^{\circ}\text{C} \pm 0.5^{\circ}\text{C}$ ; relative humidity:  $45\% \pm 5\%$ ), it is suitable for use in cleanrooms fulfilling the specifications of the following Air Cleanliness Classes according to ISO 14644-1:

Test parameter(s)	Air Cleanliness Class
$v_1 = 0.5 \text{ m/s}; a_1 = 1.0 \text{ m/s}^2$	1
$v_2 = 1.0 \text{ m/s}; a_2 = 2.0 \text{ m/s}^2$	1
$v_3 = 2.0 \text{ m/s}; a_3 = 4.0 \text{ m/s}^2$	1
<b>Overall result</b>	<b>1</b>

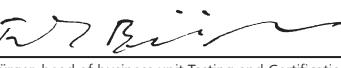
Please note: Transport damages, incorrect installation, aging behavior etc. can influence the test result.

SU 2512-1696  
Report No. first document

Stuttgart, December 12, 2025  
Place, date of first document issued

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Report No. current document

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Place, current date

on behalf of   
Dr.-Ing. Frank Bürger, head of business unit Testing and Certification



Fraunhofer  
IPA