



valid until: January 30, 2031

Fraunhofer

TESTED[®] DEVICE

Tsubakimoto Chain Co.
FLATVEYOR (FV-2025-0049)
Report No. TS 2511-1693

Single product Particle Emission in Cleanroom (atmospheric)

Qualification Certificate

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

Tsubakimoto Chain Co.
Kyoto, Japan

has been awarded a Fraunhofer certificate TESTED DEVICE
bearing the report number TS 2511-1693.

The cable FLATVEYOR (FV-2025-0049), color: black, 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
Overall result	1

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

TS 2511-1693
Report No. first document

Stuttgart, January 30, 2026
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 Burger, head of business unit Testing and Certification

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.

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



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