

# DEHS-Test according to DIN EN 14644-3

PARMESS

MAM Cleanroom Measurement



In the following, all times are shown in local time with the corresponding UTC offset.

Print date: 14 Apr 2025 09:45:28 (Europe/Berlin (UTC +2:00))

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## Protocol sheet

Building: MKLTST Room: MKLTST\_R02 Equipment No.: MKLTST\_ANLAGE\_02  
Measurement point: MKLTST\_FILMP\_F Filter class: H14  
Measure. point group: Demo Filter int. MPG 01  
Description: Test measuring point group for demo purposes  
Start measuring: 14 Apr 2025 09:29:02 UTC+02:00

### Measuring device used:

Particle measuring device	Name	Flow	Next calibration
Raw air	SIM-SEQ1	472.000 [cm <sup>3</sup> /s]	30 Dec 2050
Clean air	SIM-SEQ2	472.000 [cm <sup>3</sup> /s]	30 Dec 2050

Differential pressure measuring device	Next calibration
MKL-Test	22 May 2026

Dilution stage	Dilution factor	Next calibration
DF01	100	20 Feb 2026

Probe	Measuring notebook
Demo Probe 01	VMWIN11MOQLERO

### Filter test measurement results

Filter type	Visual Inspection OK	Differential pressure [Pa]			Integral measurement ok
		Actual	Max.	Result	
supply air filter	ok	75.0	100.0	ok	ok

Overall result	O
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Measured by: **Jane, Public (jpublic)**

Participants: n.d. n.d.

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## Integral filter test

### Measurement result

#### Probe geometry:

Effective width [cm]: 2.55  
Height [cm]: n.d.  
Diameter [cm]: 3.60

#### Parameter integral test

Filter class penetration rate integral [%]: 0.00500  
Flow raw air [m<sup>3</sup>/s]: 0.00047200  
Minimum raw air concentration [1/m<sup>3</sup>]: 166,822,368

#### Evaluation integral test

Max. integral penetration rate: 0.00005

Measurement point No.	Sample No.	Time	Raw air			Clean air		Penetration rate integral [1]	Requirements fulfilled**
			Device status	Particle $\geq 0,3 \mu\text{m}$ [1/m <sup>3</sup> ]	Requirements fulfilled *	Device status	Particle $\geq 0,3 \mu\text{m}$ [1/m <sup>3</sup> ]		
1	1	14 Apr 2025 09:29:47 UTC+02:00	ok	256,028,300	Yes	ok	22	0.0000086	Yes
1	2	14 Apr 2025 09:30:47 UTC+02:00	ok	263,785,100	Yes	ok	69	0.0000262	Yes
1	3	14 Apr 2025 09:31:47 UTC+02:00	ok	249,497,100	Yes	ok	78	0.0000313	Yes
2	1	14 Apr 2025 09:32:47 UTC+02:00	ok	221,792,500	Yes	ok	45	0.0000203	Yes
2	2	14 Apr 2025 09:33:47 UTC+02:00	ok	281,650,900	Yes	ok	132	0.0000469	Yes
2	3	14 Apr 2025 09:34:47 UTC+02:00	ok	241,871,600	Yes	ok	98	0.0000405	Yes

\* Particle concentration  $\geq 0.3 \mu\text{m}$  [1/m<sup>3</sup>] > Minimum raw air concentration [1/m<sup>3</sup>]  
\*\* Penetration rate integral [1] < Filter class penetration rate integral absolut [1]