


Palas® protective mask testing - How we test your masks!

Protection rating	
Manufacturer:	<input type="text"/>
Mask type:	<input type="text"/>
Lot number:	<input type="text"/>
Production date:	<input type="text"/>
Penetration	
Low	
3+	
3	
2+	
2	
1+	
1	
0	0
High	
Penetration with oil aerosol	<input type="text"/>
Maximal penetration	
A low G high	<input type="text"/>
Penetration for small particles of 0.145 µm	<input type="text"/>
Breath resistance	
A low G high	<input type="text"/>
Inhale at 95 l/min	<input type="text"/>
Prüfdatum:	<input type="text"/>
<small>Measured following EN149 with Palas® PM10 1000 M. The test label does not replace a full test after EN149 and should be used as quick overview.</small>	



Here you can see results of the tested mask at a glance.



But what do these figures and evaluations say?

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- **Penetration:**

This is the transmittance of the mask, i.e. the percentage of particles that pass through the mask and can potentially be inhaled. The lower the value, the safer the mask is when worn optimally.

3+:	< 0,5 %
3:	0,5 – 1 %
2+:	1 – 3,5 %
2:	3,5 – 6 %
1+:	6 – 13 %
1:	13 – 20 %
0:	> 20 %

*Based on a particle size distribution with median= 0.29 µm and geometric standard deviation= 1.85. (Deviating results according to EN149 are possible as the median may be between 0.29 and 0.45 µm and the geometric standard deviation between 1.6 and 2.2).

Measurements are performed on samples fresh from the factory.

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- **Maximum penetration:**

It describes the transmittance at 0.145 µm. The smaller this value is, the safer the mask is when worn optimally.

A:	< 0,5 %
B:	0,5 – 1 %
C:	1 – 3,5 %
D:	3,5 – 6 %
E:	6 – 13 %
F:	13 – 20 %
G:	> 20 %

*Based on a particle size distribution with median= 0.29 µm and geometric standard deviation= 1.85. (Deviating results according to EN149 are possible as the median may be between 0.29 and 0.45 µm and the geometric standard deviation between 1.6 and 2.2).

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- **Respiratory resistance:**

This is the resistance that must be overcome when breathing. The lower the value, the more comfortable it is to wear the mask.

A:	< 150 Pa
B:	150 - 210 Pa
C:	210 - 240 Pa
D:	240 - 300 Pa
E:	300 - 350 Pa
F:	350 - 400 Pa
G:	> 400 Pa

Measurements are performed on samples fresh from the factory.

Our measuring device: PMFT 1000



- ✓ **Exact analysis** of filter and respiratory resistance
- ✓ Testing of fractional efficiency and efficiency in whole size range of **100 nm up to 40 μm**
- ✓ Individual **face mask adapter** for your product
- ✓ 2 Aerosols: NaCl, oil
- ✓ **Availability:** Short delivery times!

Our offer for you!

Protect
customers & employees:

We test your respiratory
masks: including quality
label!



[Click here for our offer!](#)