



JP Protection  
Skifervej 2  
4990 Saksøbing  
Denmark

Brøndby, 22 December 2020  
120-35743  
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1 enclosure

# Test Report

## JP Protection JX-FM-FP2

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# Test report

**Object:** Test of mask: JX-FM-FP2 (see enclosure)  
**Samples received:** 26.11.2020  
**Sampling by:** JP Protection  
**Method:** EN 149:2001 + A1:2009  
**Test date:** 01.12.2020-18.12.2020

## Results:

All results must meet the requirements stated in EN 149:2001 + A1:2009. All tests were performed in accordance to EN 149:2001+A1:2009.

### Abbreviations:

(AR)= As received, (TC)= Temperature conditioned, (SW)= Simulated wearing treatment,  
(MS)= mechanical strength

## § 8.2 Visual inspection

The mask was of uniform white material and without valve. The mask had white straps that fit around the ears.

## § 8.4 Practical performance

	Comments (1)	Pass/fail	Comments (2)	Pass/fail
a) Head harness comfort	Comfortable straps	P	Straps rubs at the ears	P
b) Security of fastenings	Easy to adjust	P	Ok	P
c) Field of vision	Ok	P	Ok	P
d) Maintenance of face seal	Mask slides up a bit	P	Ok	P
e) Other comments	Mask seems long, hard to fit on a small face	P	No comments	P

Table 1: Results from practical performance

### § 8.5 Total Inward Leakage

Total Inward Leakage	46 of 50 results (%)	8 of 10 individual means (%)
FFP1	25	22
FFP2	11	8
FFP3	5	2

Table 2: Requirements for Total Inward Leakage in accordance to EN 149:2001 + A1:2009

Total Inward Leakage	1(AR)	2(AR)	3(AR)	4(AR)	5(AR)	6(TC)	7(TC)	8(TC)	9(TC)	10(TC)	Class/fail
Leakage (%)	0,10	0,28	2,18	0,01	4,06	0,36	2,23	0,04	1,09	1,08	FFP1 FFP2 FFP3
	1,03	0,40	1,93	0,22	5,92	0,47	4,85	0,05	3,72	0,87	
	9,53	0,36	2,56	6,77	5,46	0,58	4,65	0,06	11,24	1,45	
	0,12	0,93	2,46	0,10	3,41	0,28	3,67	0,06	0,87	1,47	
	3,03	0,43	1,47	0,04	4,77	0,38	2,43	0,06	3,52	1,48	
Individual mean leakage (%)	2,76	0,48	2,12	1,43	4,73	0,41	3,56	0,05	4,09	1,27	FFP1 FFP2

Table 2.1: Results for Total Inward Leakage and individual mean

### § 8.6 Flammability

Flammability	Pass/fail
JX-FM-FP2 (AR)	P
JX-FM-FP2 (TC)	P

Table 3: Results for flammability

### § 8.7 Carbon dioxide content of the inhalation air

Carbon dioxide content of the inhalation air	Measurement (%)	Pass/fail
Requirements (mbar)	≤1	
JX-FM-FP2 (AR)	0,43 0,50 0,45	P

Table 4: Results from carbon dioxide content of the inhalation air

## § 8.9 Breathing Resistance

Classification	Maximum permitted resistance (mbar)		
	Inhalation		Exhalation
	30 l/min	95 l/min	160 l/min
FFP1	0,6	2,1	3,0
FFP2	0,7	2,4	3,0
FFP3	1,0	3,0	3,0

Table 5: Requirements for Breathing Resistance

Breathing Resistance	Inhalation, 30 l/min (mbar)	Inhalation, 95 l/min (mbar)	Exhalation, 160 l/min (mbar)	Class/fail
JX-FM-FP2 (AR)	0,40	1,35	2,25	FFP1 FFP2 FFP3
	0,40	1,45	2,25	
	0,40	1,35	2,20	
JX-FM-FP2 (SW)	0,45	1,45	2,25	FFP1 FFP2 FFP3
	0,40	1,30	2,10	
	0,40	1,25	2,00	
JX-FM-FP2 (TC)	0,40	1,30	2,00	FFP1 FFP2 FFP3
	0,40	1,35	2,10	
	0,40	1,30	2,10	

Table 5.1: Breathing Resistance

### § 8.11 Penetration of filter material

Classification	Maximum penetration of test aerosol	
	Sodium Chloride test 95 l/min % max	Paraffin oil test 95 l/min % max
FFP1	20	20
FFP2	6	6
FFP3	1	1

Table 6: Requirements in accordance with EN 149:2001 + A1:2009

Sample	Result (%)	Class/fail	Aerosol
JX-FM-FP2 (AR)	0,02	FFP1	Sodium chloride, 95 l/min
	0,02	FFP2	
	0,02	FFP3	
JX-FM-FP2 (SW)	0,02	FFP1	
	0,02	FFP2	
	0,02	FFP3	
JX-FM-FP2 (MS-TC)	0,03	FFP1	
	0,03	FFP2	
	0,03	FFP3	

Table 6.1: Penetration of filter material: Initial penetration NaCl

Sample	Result (%)	Class/fail	Aerosol
JX-FM-FP2 (AR)	0,05	FFP1	Paraffin oil 95 l/min
	0,17	FFP2	
	0,09	FFP3	
JX-FM-FP2 (SW)	0,11	FFP1	
	0,08	FFP2	
	0,10	FFP3	
JX-FM-FP2 (MS-TC)	0,18	FFP1	
	0,25	FFP2	
	0,25	FFP3	

Table 6.2: Penetration of filter material: Initial penetration Paraffin oil

Sample	Result (%)	Class/fail	Aerosol
JX-FM-FP2 (MS-TC)	0,03	FFP1	Sodium chloride, 95 l/min
	0,03	FFP2	
	0,03	FFP3	
JX-FM-FP2 (MS-TC)	0,62	FFP1	Paraffin oil, 95 l/min
	0,62	FFP2	
	0,59	FFP3	

Table 6.3: Penetration of filter material: Maximum penetration during exposure

#### Conclusion:

The mask complies with the requirements of EN 149:2001 + A1:2009 classification FFP 2 for the tests performed in this report.

**Enclosure No. 1**

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**Photos of device:**

