

# Datasheet

## FFP masks

Protection against Dust, Mist & Fumes



### Smart Series – Smart masks

#### FFP1 NR D

-  **2380** non valved
-  **2385** with Ventex®-valve

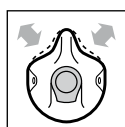
#### FFP2 NR D

-  **2480** non valved
-  **2485** with Ventex®-valve

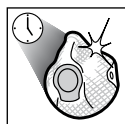
#### FFP3 NR D

-  **2505** with Ventex®-valve

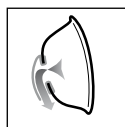
#### CHARACTERISTICS



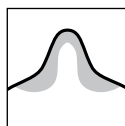
**ActivForm®**  
Automatically fits to the face.  
No manual adjustments by the user are necessary.



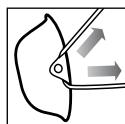
**DuraMesh®**  
Masks have a strong and durable structure.



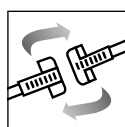
**Ventex®-valve**  
Starts to open even at low exhalation pressure and significantly reduces moisture and heat inside the mask.



**Nose seal**  
The flexible nose seal improves fit and provides optimum wearing comfort.



**Adjustable Strap**  
Makes it easier to take the mask on and off and to adjust to different head/neck dimensions.



**Clip**  
Easy on & off; mask can be worn around the neck during breaks.



**Dolomite clogging test**  
Masks have passed the Dolomite clogging test.  
Better breathing resistance for longer.



**100% PVC-FREE**  
All Moldex products and packaging are completely free from PVC.

**NR (non reusable)** = Single use.  
Comfortable and durable throughout the whole shift

#### CERTIFICATION

The Moldex Smart FFP-masks meet the requirements of EN149:2001 + A1:2009 and are CE-marked in accordance with the requirements of European Directive 89/686/EEC. The IFA (0121) Germany is responsible for both type examination (Article 10) and monitoring of production (Article 11B).  
The products are manufactured in an ISO 9001:2000 certified plant.

#### MATERIALS

**Filter Layer, Inner Shell, DuraMesh®:** Polypropylene, Ethylene-vinyl acetate (EVA)

**Nose Seal, Clip:** Polyethylene

**Ventex®-valve:** Natural Rubber

**Head Strap:** Polyester, Natural Rubber

#### WEIGHT

**2380:** 16 g **2385:** 18 g **2480:** 20 g **2485:** 22 g **2505:** 24 g

#### AREAS OF USE

Level	WEL	Hazard type
FFP1	4 x	<b>Examples</b>
		FINE DUSTS, FUMES, WATER AND OIL BASED MISTS/AEROSOLS  Against non-toxic dusts, e.g. Aluminium Oxide, Bauxite, Borax, Brick Dust, Cellulose, Cement, Coal Dust, Gypsum, Limestone, Plaster of Paris, Pollen, Portland Cement, Sucrose, Sugar
FFP2	10 x	FINE TOXIC DUSTS, FUMES, WATER AND OIL BASED MISTS/AEROSOLS  Against toxic dusts, e.g. Aluminium Oxide, Bauxite, Borax, Brick Dust, Cellulose, Cement, Coal Dust, Gypsum, Limestone, Plaster of Paris, Pollen, Portland Cement, Sucrose, Sugar, Brake Dust, Calcium Oxide, China Clay, Concrete Dust, Cotton Dust, Granite, Hay, Lead Dust and Fume, Particulate Welding Fumes (no very toxic metals), Silica, Sodium Hydroxide, Wood Dust (softwood), Zinc Oxide Fume
		As FFP2 but at higher concentrations, plus: Ceramic Fibres, Chromates, Chromium, Cobalt, Nickel, Micro Organisms, radioactive and biochemical active Aerosols
FFP3	20 x	FINE TOXIC DUSTS, FUMES, WATER AND OIL BASED MISTS/AEROSOLS  As FFP2 but at higher concentrations, plus: Ceramic Fibres, Chromates, Chromium, Cobalt, Nickel, Micro Organisms, radioactive and biochemical active Aerosols

(WEL = Workplace Exposure Limit)

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## TESTING ACCORDING TO EN 149:2001 + A1:2009

### Total inward leakage

Ten test subjects perform a variety of exercises. During the exercises the amount of test aerosol that penetrates the filter, face seal and valve are sampled. The total inward leakage of 8 out of 10 test subjects shall not exceed the following levels:

Category	FFP1	FFP2	FFP3
max. total inward leakage	22 %	8 %	2 %

The filter penetration after loading the filter with 120 mg paraffin oil according to DIN EN 149:2001 + A1:2009 shall not exceed the following levels:

Category	FFP1	FFP2	FFP3
max. Filter penetration	20 %	6 %	1 %

### Flammability

4 respirators are passed through a 800°C (+/- 50°C) flame with a speed of 6 cm/s. After passing through the flame the respirator has to self-extinguish.

### Breathing Resistance

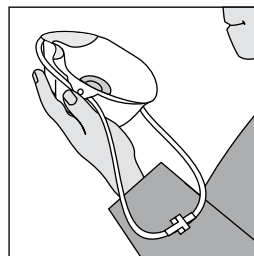
The breathing resistance produced by the filter of the respirator is tested at an airflow of 30 l/min and 95 l/min.

Category	max. breathing resistance	
	30 l / min	95 l / min
FFP1	0,6 mbar	2,1 mbar
FFP2	0,7 mbar	2,4 mbar
FFP3	1,0 mbar	3,0 mbar

## INSTRUCTIONS FOR USE

- The user has to be trained and instructed in wearing the mask.
- FFP Masks do not protect against gases and vapours.
- The oxygen concentration of the ambient atmosphere should be at 19,5 % Volume.
- These respirators may not be used if the concentration type, and properties of contaminants in the ambient atmosphere are unknown or at dangerous levels.
- Respirators should be disposed if damaged, if the breathing resistance becomes high due to clogging, or at the end of a shift.
- Never tamper with, alter or modify the respirator.

## INSTRUCTIONS FOR FITTING



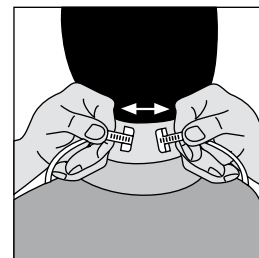
1. Pull strap to form a large loop.



4. Adjust strap by pulling loop on strap.



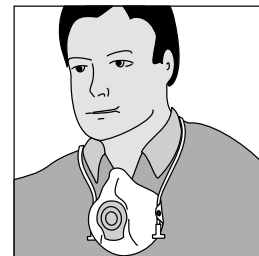
2. Place respirator on chin and pull loop over head tight to the neck.



5. During breaks unclip strap.



3. Pull upper strap and place on back of head.



6. Let mask hang around your neck.

## INFO

For help on selection and training please contact us. We offer a wide range of training packages and support material.

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