

Datasheet



FFP masks

Protection against Dust, Mist & Fumes



Smart Series (Special)

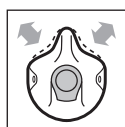
FFP2 NR D

-  **2430** non valved + gases < WEL*
-  **2435** with Ventex®-valve + gases < WEL*

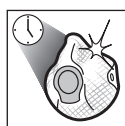
FFP2 NR D

-  **2445** with Ventex®-valve + ozone

CHARACTERISTICS



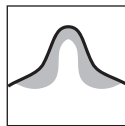
ActivForm®
Automatically fits to the face.
No manual adjustments by the user are necessary.



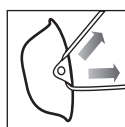
DuraMesh®
Masks have a strong and durable structure.



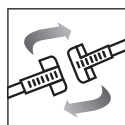
Ventex®-valve
Starts to open even at low exhalation pressure and significantly reduces moisture and heat inside the mask.



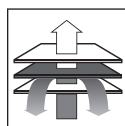
Nose seal
The flexible nose seal improves fit and provides optimum wearing comfort.



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.



Activated charcoal layer
Designed to provide nuisance relief (2430, 2435) or protection against ozone (2445).



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.

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 11).
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
Vapour Filter Layer: Activated charcoal

WEIGHT

2430: 20 g **2435:** 29 g **2445:** 29 g

AREAS OF GENERAL USE

Level	WEL	Hazard type
		Examples
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 heavy metal), Silica, Sodium Hydroxide, Wood Dust (softwood), Zinc Oxide Fume

AREAS OF SPECIAL USE

Mask	GAS/ VAPOUR-FILTRATION	Hazard type
		Examples
2430 2435	NUISANCE	ACID GASES Hydrogen Chloride, Hydrogen Fluoride, Sulphur Dioxide
	NUISANCE	ORGANIC VAPOURS/ ODOURS Cleaning spirits, Paint solvents
2445	10 x WEL	OZONE/ WELDING FUMES Copper, iron, magnesium, manganese, steel, zinc

(*WEL = Workplace Exposure Limit)

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

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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	FFP2
max. total inward leakage	8 %

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	FFP2
max. Filter penetration	6 %

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
FFP2	0,7 mbar	2,4 mbar

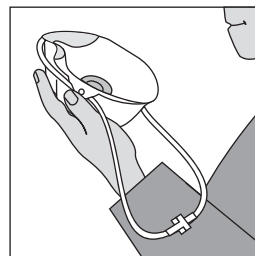
GAS/VAPOUR FILTRATION OF 2445

The activated charcoal layer of the 2445 filters out up to 10 x WEL of ozone for up to 8 hours.

INSTRUCTIONS FOR USE

- The user has to be trained and instructed in wearing the mask.
- The 2430 + 2435 does not protect against values greater than nuisance levels of organic vapours/odours.
- The 2445 protects against values greater than 10 x the Workplace Exposure Limit of ozone.
- 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



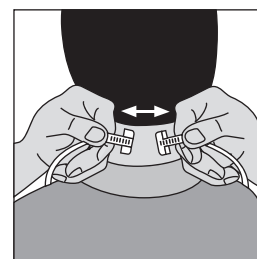
1. Pull strap to form a large loop.



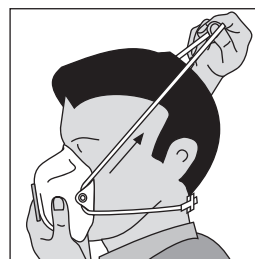
4. Adjust strap by pulling loop on strap.



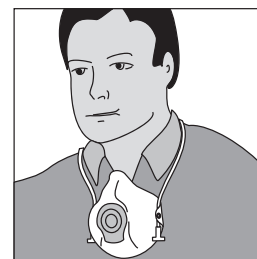
2. Place respirator on chin and pull loop over head tight to the neck.



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.

MOLDEX-METRIC AG & Co. KG
Unit 9, Glaisdale Point
Off Glaisdale Drive, Bilborough
Nottingham. NG8 4GP

Tel.: +44 (0)115 985 4288
Fax: +44 (0)115 985 4211
info@uk.moldex-europe.com
www.moldex-europe.com