

DATASHEET


HALF MASK

PROTECTION AGAINST GAS, VAPOUR & DUST




SERIES 8000

Size




8001 S
8002 M
8003 L

Gas Filter Cartridges




8100 A1
8200 ABE1
8900 ABEK1
8500 A2

Particulate Filter Discs



8060 P1 R D
8070 P2 R D
8080 P3 R D

Holder/Cartridge



8090
8095

CHARACTERISTICS

„The 8000 Series“ from Moldex are cost effective, reusable respirators providing high performance and low maintenance protection. Purpose designed for enhanced wearer comfort and improved field of vision, the 8000 series masks are lightweight and easy to fit. Replaceable gas filter cartridges with built in inhalation valves provide gas and vapour protection. Replaceable particulate filter discs provide dust, mist and fume protection. The 8000 Series are extremely versatile respirators. They can be used for gas / vapour protection, gas / vapour plus particulate protection, or just particulate protection dependant upon which combination of adaptors and cartridges are used. Improved clogging characteristics enable particulate filters to pass the dolomite clogging test (D).

MATERIAL

Facepiece: Thermoplastic Elastomere (TPE)
Head Strap: Polyester, Lycra
Clip: Polyethylene
Particulate Filter: Polypropylene
Particulate Filter Holders: Polypropylene
Gas Filter: Activated Charcoal
Gas Filter Cartridges: Polystyrene
Inhalation Valve: Natural Rubber, SBR
Exhalation Valve: Silicone rubber

WEIGHT

Facepieces
8001: 100 g **8002:** 101 g **8003:** 101 g
Gas/Vapour cartridges (per pair)
8100: 130 g **8200:** 136 g **8900:** 186 g **8500:** 170 g
Particulate filter discs (per pair)
8060: 12 g **8070:** 15 g **8080:** 34 g
Particulate filter holders/cartridge (per pair)
8090: 52 g **8095:** 78 g

CERTIFICATION

The Moldex 8000 Series meet the requirements of EN 140:1998, EN 14387:2004+A1:2008 and EN 143:2000+A1:2006. The products are CE-marked in accordance with the requirements of EU regulation (EU)2016/425. The IFA (0121) in St. Augustin (Germany) is responsible for type examination (Module B) and monitoring of production (Module D).

The products are manufactured in an ISO 9001 certified plant.

AREAS OF USE – GAS/VAPOUR

Level	WEL	Hazard type Examples
A1	30x	ORGANIC GASES/VAPOURS b.p. >65°C (Against solvents from Adhesives, Paints, Paint Sprays, Pesticides)
ABE1	30x	A1: ORGANIC GASES AND VAPOURS B1: + INORGANIC GASES AND VAPOURS (Against chlorine, bromine, hydrogen cyanide) E1: ACID GASES (Against hydrogen chloride, nitric acid, sulphur dioxide)
ABEK1	30x	COMBINATION OF ALL OF A1, B1, E1 AND K1 (K1: AMMONIA AND AMINE DERIVATIVES)
A2	30x	ORGANIC GASES/ VAPOURS b.p. >65°C (e.g. As for A1 but at higher concentrations)

AREAS OF USE – PARTICULATE

Level	WEL	Hazard type Examples
P1 R D	4 x	FINE DUSTS, FUMES, WATER AND OIL BASED MISTS/ AEROSOLS Non-toxic dusts, cellulose, coal dust, limestone, pollen, sugar
P2 R D	10 x	HAZARDOUS FINE DUSTS, WATER AND OIL BASED MISTS/ AEROSOLS, BIOLOGICAL AGENTS OF RISK GROUP 2 As P1 but at higher concentrations, plus toxic dusts, aluminum oxide, bauxite, borax, brick dust, cement, gypsum, calcium oxide, concrete dust, granite, chromium, particulate welding fumes (no heavy metals), mould, wood dust (softwood), zinc oxide fume
P3 R D	30 x	HARMFUL AND CARCINOGENIC DUSTS, WATER AND OIL BASED MISTS/ AEROSOLS, BIOLOGICAL AGENTS OF RISK GROUP 2 AND 3, CMR-SUBSTANCES As P2 but at higher concentrations, plus carcinogenic substances, ceramic fibres, brake dust, chromates, lead dust and fume, cobalt, nickel, wood dust (hardwood), micro organisms, radioactive and biochemical active aerosols, enzymes, viruses

* WEL = Workplace Exposure Limit

R: The filters are reusable.

D (Dolomite clogging test): Masks have passed the Dolomite clogging test, giving the user better breathing resistance for longer.

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TESTING

The respirators of the Moldex 8000 Series have been tested to EN 140:1998, EN 14387:2004 and EN 143:2000 and fulfill all requirements of the relevant categories.

Inward leakage of facepiece

Ten test subjects wearing respirators perform a variety of exercises on a tread mill. During the exercises the amount of test aerosol that penetrates the face seal and exhalation valve are sampled. The inward leakage of the test contaminant must not exceed a value of 5 % of the inhaled air with 46 out of 50 test exercises. 8 out of 10 average values must not exceed 2 % of the total inward leakage.

Breathing Resistance

The breathing resistance produced by the gas filter cartridge or combination of gas filter cartridge and particulate filter disc is tested at an airflow of 30 l/min and 95 l/min.

Classification	Max. Breathing Resistance (mbar)	
	30 l/min	95 l/min
A1,B1,E1,K1,ABEK1	1,0 mbar	4,0 mbar
A1,B1,E1,K1,ABEK1-P1 D	1,6 mbar	6,1 mbar
A1,B1,E1,K1,ABEK1-P2 D	1,7 mbar	6,4 mbar
A1,B1,E1,K1,ABEK1-P3 D	2,2 mbar	8,2 mbar
A2-P1 D	2,0 mbar	7,7 mbar
A2-P2 D	2,1 mbar	8,0 mbar
A2-P3 D	2,6 mbar	9,8 mbar

Flammability

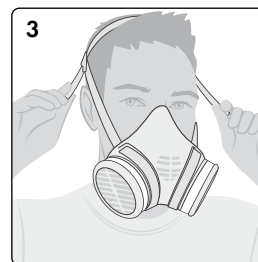
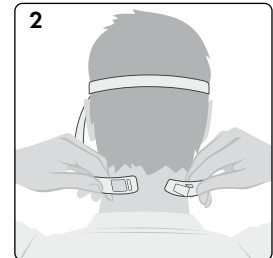
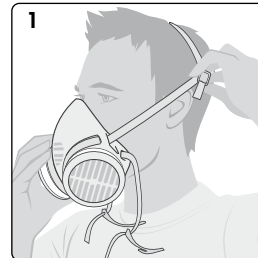
Facepieces are passed through a 800°C (+/- 50°C) flame with a speed of 6 cm/s. After passing through the flame the facepiece has to self-extinguish.

PROTECTION CAPACITY

The minimum capacities and breakthrough times of the gas filter cartridges are tested at a flowrate of 30 l/min.

Category	Test Gases	Minimum Capacity	Minimum Breakthrough time
A1	Cyclohexane	7,3 g	70 min
	Chlorine	1,8 g	20 min
B1	Hydrogen cyanide	0,84 g	25 min
	Sulfur dioxide	1,6 g	20 min
E1	Ammonia	1,05 g	50 min
A2	Cyclohexane	18,4 g	35 min

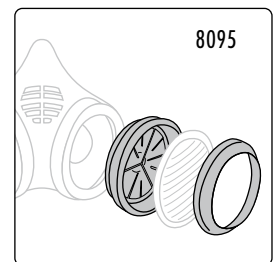
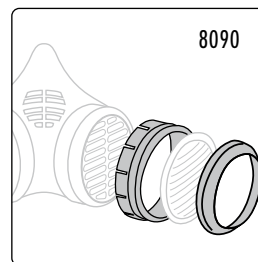
INSTRUCTIONS FOR FITTING



CHECK OF FACESEAL



INSERTION/REPLACEMENT OF THE PARTICLE FILTER/PRE-FILTER



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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