

MEIXIN[®]



*Introducing the
MX-2016V FFP3 NR Particulate Respirator*





MX-2016V FFP3 NR
EN149:2001+A1:2009

CE2797

MEIXIN is a professional mask manufacturer specialising in the research and development of leading protective equipment solutions to improve the safety of the working environment and better protect users from hazard.

The company has been making masks for over 20 years. We offer a wide selection of products ranging from moulded masks, foldable horizontal mask, foldable vertical mask, dolomite masks to pleated 3-Ply. We have been supplying the UK market since 2007.

MEIXIN Masks are non-toxic with no harmful substance or fibreglass polypropylene materials. Quality controls and testing are in place from raw materials through to the finished product.

The company recently completed an expansion and modernisation of its production facilities and an upgrade to its testing laboratory to further improve manufacturing quality and control.

MEIXIN has been ISO 9001/14001 approved since 2013 and all products CE certified since 2015.

In 2020 MEIXIN and ComfortShield Group agreed a formal co-operation to market the production of FFP1, FFP2 and FFP3 respirators and carbon filter masks to global markets. The aim is to improve the adoption of high quality masks in high-demand markets and better connect users to the producer.

Meixin and ComfortShield Group are always prepared to invest in new product development for specific user applications.

Zheng Wenxin, Chairman, Jinhua Meixin Safety Equipment Ltd.



Key Features and Benefits

Product Detail	Feature	Benefit
Moulded nose panel	Contoured design conforms well to nose and eye contours	<ul style="list-style-type: none"> ✓ Improves compatibility with eyewear ✓ Improves field of vision
Ergonomic form mould	Fits comfortably across a wide range of face shapes and sizes Remains in place once donned Collapse resistant	<ul style="list-style-type: none"> ✓ Helps ensure a good face seal ✓ Respirator flexes with mouth movement while talking ✓ Ideal for work in humid environments
Twin headbands with multi-adjustment	Helps to create a comfortable adjustable fit for the user	<ul style="list-style-type: none"> ✓ Comfortable
Exhaust Flow Valve	Effective removal of heat build up	<ul style="list-style-type: none"> ✓ Provides a cooler & more comfortable wear ✓ Removes exhaled air ✓ Minimises the risk of fogging eyewear
Individual packaging	Hygienic and convenient	<ul style="list-style-type: none"> ✓ Helps protect the respirator from contamination before use ✓ Allows practical storage and distribution

Usability and Comfort

Ergonomic form mould

- good face seal
- flexes to allow speech in use

Moulded nose panel

- compatible with eyewear
- improves field of vision

Breathability

- exhaust valve keeps heat build-up low
- removes humid exhaled air, minimises eyewear fogging
- multi-adjust headbands allow for easy donning and comfort fit

Convenience

- individual packaging for better hygiene and practical storage and picking
- multi-adjust headbands allow for easy donning and comfort fit



DESCRIPTION

This filtering face mask is Category III Particulate Respirator, Personal Protective Equipment (PPE).



- EN149:2001 +A1 :2009: Inspec, Manchester, United Kingdom. Report Number 1.16.09.48
- CE Certified: BSI Group, The Netherlands B.V., Notified Body number 2797
- EC marking in conformity with European Commission Regulation (EU) 2016/425 relating to PPE; CE 687723
- ISO 9001:2008; Ingeer Certification Assessment Services, Shanghai, China; Certificate No 11717QU0162-03ROS

EN149:2001 +A1 :2009: Inspec, Manchester, United Kingdom. Report Number 1.16.09.48

Characteristic	Testing Methodology	Acceptable Limit	Result
Mean Inward Leakage	EN149:2001 +A1 :2009	2.0%	0.457%
Sodium Chloride Penetration Test	EN149:2001 +A1 :2009	1.0%	0.123%
Paraffin Oil Penetration Test	EN149:2001 +A1 :2009	1.0%	0.113%
Breathing Resistance Inhalation at 95 l/min	EN149:2001 +A1 :2009	3.0 mbar	2.8 mbar
Breathing Resistance Exhalation at 160l/min	EN149:2001 +A1 :2009	3.0 mbar	2.53 mbar

Product Information

Characteristic	Specification		
Materials	Mask Body	Multi-Layer	Non-woven fabric 70%, melt-blown fabric 30%
	Face Seal	Soft, Smooth, Foam	
	Nose Piece	Plastic Coated, Soft Aluminium Material	
	Head Bands	Elasticated flat straps	
Dimensions	Body Size	Height	130mm
		Width	150mm
		Depth	55mm (65mm Including Valve)
	Nose Piece	The length shall not be less than 80mm	
Shelf Life	3 Years		

STANDARDS

Respirator products are classified by filtering efficiency and maximum total inward leakage performance (FFP1, FFP2 and FFP3). There are also requirements regarding usability and clogging resistance.

The European and British standard governing particulate respirators is BSI EN EN149:2001 + A1:2009. This standard includes tests for filter penetration; flammability; breathing resistance and total inward leakage. Reusable products are also subjected to cleaning, storage and mandatory clogging resistance tests (clogging is optional for non-reusable products). A full copy of EN 149:2001+A1:2009 can be purchased from BSI or any other European national standards body.

Filter penetration

The filter penetration, initial and after 120mg of loading with both 120mg of NaCl and Paraffin Oil, shall not exceed the following limits:

EN 149:2001+A1:2009 Classification	Maximum Filter Penetration
FFP1	20%
FFP2	6%
FFP3	1%
MX-2016V - NaCl	0.1%
MX-2016V - Paraffin Oil	0.5%

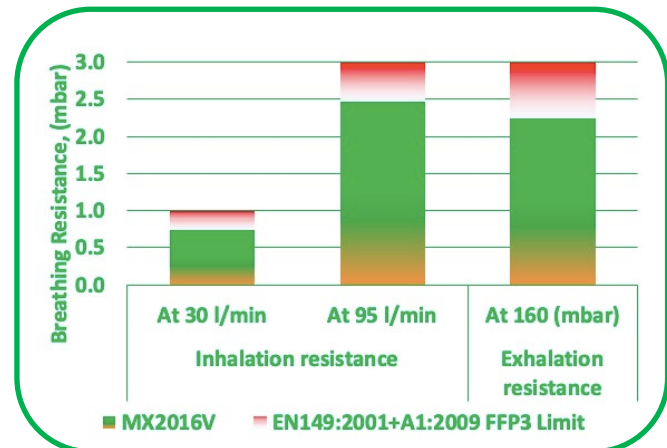
Total Inward Leakage

Ten subjects perform five test exercises whilst wearing the respirator. The total inward leakage inside of the respirator due to face seal leakage, filter penetration and valve leakage is measured for each subject exercise. The subject mean total inward leakage for 8 out of 10 subjects shall not exceed the following limits:

EN 149:2001+A1:2009 Classification	Maximum Total Inward Leakage
FFP1	22%
FFP2	8%
FFP3	2%
MX-2016V	0.5%

Breathing Resistance

The breathing resistance of the respirator is tested during inhalation (continuous flow) and exhalation (cyclical flow). The breathing resistance of the respirators shall not exceed the following limits:



FITTING INSTRUCTIONS

See Figure 1:

Before fitting respirator, ensure hands are clean.

All respirator components should be inspected for damage prior to each use.

1. Cup respirator in one hand with nosepiece at fingertips, allow headbands to hang freely below hand.
2. Hold respirator under chin, with nose piece up
3. Locate the upper strap across the crown of the head and the lower strap below the ears.
4. Straps must not be twisted
5. Using both hands, mould nose clip to the shape of the lower part of the nose to ensure a close fit and good seal. Pinching the nose clip using only one hand may result in less effective respirator performance
6. The seal of the respirator on the face should be fit-checked before entering the workplace.
7. If the user feels the bottom strap is too loose and it is not possible to achieve a satisfactory fit of the respirator a knot can be tied in the strap

Figure 1.



STORAGE AND TRANSPORTATION

The Meixin MX-2016V FFP3 NR Particulate Respirators have a shelf life of 3 years. End of shelf life is marked on the product packaging. Product should be stored in clean, dry conditions within the temperature range: -5°C to 38°C with a maximum relative humidity of <70%. When storing or transporting this product use original packaging provided.

DIRECTIONS FOR USE

1. The respirator is for single use only
2. The respirator should not be removed from its packaging until it is required for use.
3. Use the respirator in accordance with applicable health and safety regulations.
4. Fit the respirator and check leak-tightness before entering the contaminated area.
5. Wear the respirator for the whole duration of exposure to contaminants. It should not be used for more than 8 hours continuously and should be discarded after use.
6. Transport and stock-age of unused respirators should be such that the product is not stored in direct sunlight and in frost free conditions, not in contact with solvents and cannot be damaged by physical contact with hard surfaces/items.
7. As required by European Health and Safety requirements, the user is advised that when the mask is in contact with the wearer's skin, it may cause allergic reaction to susceptible individuals. If this is the case, leave the hazard area, remove the respirator and seek doctor's advice.
8. Storage life is 3 years from the date of manufacture.



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WARNING

1. The user should be trained in the fitting and should be aware of the instructions for use prior to donning the respirator.
2. Use in adequately ventilated areas, which are not deficient of oxygen.
3. Do not use this respirator when oxygen concentration is less than 19.5%
4. Do not use this respirator in an explosive environment.
5. The respirator must be fitted correctly to ensure the level of protection expected is achieved.
6. The facial hairs or beards and certain facial characteristics may reduce the effectiveness of the respirator.
7. This particulate filtering half mask is intended for use for one shift only.
8. Discard and replace the respirator if:
 - I The respirator is removed whilst in a contaminated area.
 - II Clogging of the respirator causes breathing difficulties.
 - III The respirator becomes damaged.
 - IV The smell of vapours present becomes detectable.

DISPOSAL

Contaminated products should be disposed as hazardous waste in accordance with national regulations.

For Sales and Re-order, please contact:

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Important Notice

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