

Technical Specification Sheet

Learn More:



OSR-Model 1 Reusable Face Mask

Main Features

Made of medical grade silicone and a replaceable filter disc that jointly filter more than 99% of airborne particles, the OSR-M1 is durable, reusable, and easy to clean. It fits snugly around your nose and mouth, with multiple sizes and adjustable straps to achieve a fully customized fit.

The key features include:

- Reusable, medical-grade materials
- Bidirectional filtration protects both user and others nearby
- Silicone facepiece seals comfortably and securely
- Large filter area for increased filtration and breathability
- Low cost replaceable filter
- Uses 4 times less filter material vs. disposable masks
- Modular, cleanable, and sterilization compatible design
- Pays for itself in 20 uses vs. disposable masks
- Available in multiple sizes
- Lightweight
- Made in the USA



Technical Specifications	Performance	Testing Procedure
Filter Efficiency	≥99% of airborne particles*	TEB-APR-STP-0059
Exhalation Resistance	13.0 mmH2O	TEB-APR-STP-0003
Inhalation Resistance	17.1 mmH2O	TEB-APR-STP-0007
Residual CO2 (10 Min Avg.)	1.778%	RCT-APR-0064-508
Blood Splash	Pass; 635cm/s	ASTM F1862
Weight	120 grams	N/A
Country of Origin	Made in USA	N/A

*Performance based on an NaCl aerosol with a CMD of 0.075 micrometer

Our Mission

Open Standard Industries is an effort to address the shortage of safe, effective, and resilient masks for essential workers and consumers.

We are committed to producing a protective mask and maximizing impact as safely and as quickly as possible until there is no longer a need.

About the OSR-M1 Mask

The OSR-M1 mask is intended to be used for filtering more than 99% of airborne particles larger than 0.075µm.

The replaceable filter material is an electret non-woven polymer. The OSR-M1 mask components is assembled from a medical-grade plastic filter compartment and a silicone facepiece available in three sizes. Adjustable straps made of EPDM rubber fit around the head and neck to secure the mask to the face.

Materials*

Qty	Name	Part #	Material
1	Facepiece	OSR-M1-FP**	Silicone
1	Filter Grill	OSR-M1-FG	Polypropylene
1	Filter Adapter	OSR-M1-FA	Polypropylene
5	Filter Media	OSR-M1-FM	Nonwoven PP
1	Lock Ring	OSR-M1-LR	Polypropylene
1	Upper Strap	OSR-M1-US	EPDM
2	Lower Strap	OSR-M1-LS	EPDM
2	Clasp	OSR-M1-CL	Polypropylene

*See website for material data sheets

**Size and color will be unique to your order

Storage

Storage Conditions

- Temperature Range: -10°C to 50°C
- The device should be stored in a clean, dry location. It is generally recommended to be stored without a filter installed. It is recommended to replace the filter after long term storage.
- Storage in direct sunlight with long term exposure to UV light is not recommended. However, short term exposure (30min - 1hr) to sunlight to assist in drying is acceptable.

After wearing the mask for multiple hours or in situations resulting in moisture build up, it's recommended to store the device in a location with consistent air flow to allow it to fully dry. Short term exposure to sunlight is also an effective technique to aid in drying out the mask and filter. Keep out of reach of children.

Results of improper storage conditions:

- Long term exposure to high heat and UV may accelerate degradation of the elastic properties of the straps.
- Long term storage in high humidity may promote undesirable microbial growth after use.

Contraindications

- The OSR-M1 should not be worn with a beard or if a proper seal cannot be achieved.
- Individuals with a respiratory condition, such as asthma or emphysema, should consult a physician prior to use.
- The OSR-M1 is not a medical device and should not be used in high risk environments.

Use Limitations

1. If you have asthma, shortness of breath, other breathing difficulties or respiratory or pulmonary difficulties consult a physician before use.
2. This face mask does not supply oxygen. Do not use when concentrations of contaminants are immediately dangerous to life or health, are unknown, or when concentrations exceed ten (10) times the permissible exposure limit (PEL) or according to specific OSHA standards or applicable government regulations, whichever is lower.
3. Do not alter, abuse or misuse this face mask.
4. Do not use with beards, other facial hair, or other conditions that prevent a good seal between the face and the sealing surface of the face mask.
5. Face masks can help protect your lungs against certain airborne contaminants; they will not prevent entry through other routes such as the skin, which would require additional protective equipment.
6. This face mask is designed for occupational/professional use by adults who are properly trained in their use and limitations. This face mask is not designed to be used by children.
7. Individuals with a respiratory condition, such as asthma or emphysema, should consult a physician and must complete a medical evaluation prior to use.
8. If you cannot achieve a proper seal in accordance with the Fitting Instructions, do not use the face mask.

CAUTIONS AND WARNINGS

IMPORTANT: Before use, wearer must read and understand these User Instructions. Keep these instructions for reference.

Use For: Particles such as those from grinding, sanding, sweeping, sawing, bagging, or processing minerals, coal, iron ore, flour, metal, wood, pollen, and certain other substances. Liquid or non-oil based particles from sprays that do not also emit oil aerosols or vapors.

Do Not Use For: Do not use for gases and vapors, oil aerosols, asbestos, or sandblasting; particulate concentrations that exceed either 10 times the occupational exposure limit or applicable government regulations, whichever is lower. This mask does not supply oxygen.

Biological Particles: This mask can help reduce inhalation exposures to certain airborne biological particles (e.g. mold, *Bacillus anthracis*, *Mycobacterium tuberculosis*, etc.) but cannot eliminate the risk of contracting infection, illness or disease.

Warnings

1. This product is not a medical device.
2. This product is not recommended for use in the presence of a high intensity heat source or flammable gas.
3. This product provides no recommendations for protection against liquid penetration.
4. This product can help reduce inhalation exposures to certain airborne biological particulates but cannot eliminate the risk of contracting any disease, illness or infection.
5. Facial hairs or beards and certain facial characteristics may reduce the effectiveness of this face mask.
6. Never alter or modify this face mask in any way.
7. This product contains small parts that may be a choking hazard. Keep out of use of children.