

# HM7700 HALF MASK

**NORTH**<sup>®</sup>

**Maximum Comfort.  
Unparalleled Durability.  
Extraordinary Versatility.**



The EU standards-approved HM7700 Reusable Half Mask Air Purifying Respirator delivers unrivaled fit, protection and durability, ensuring maximum employee comfort that lasts throughout the entire work shift.

**PIP**  
GLOBAL SAFETY

# WHY COMFORT MATTERS

In industries such as oil and gas, pharmaceutical, general manufacturing, metal and construction, employees often work in environments where they are exposed to airborne contaminants, such as dust, fumes, gas, smoke or vapors. Respiratory protection is a must, and there is a wide range of personal protective equipment (PPE) from which to choose — including reusable half mask air-purifying respirators.

A key problem, however, is that many of the options are uncomfortable, particularly when they must be worn continuously throughout an entire work shift. Poorly designed, improperly sized and ill-fitting PPE can be a distraction for workers, putting pressure on their faces and heads or leaving unsafe gaps. When employees are physically uncomfortable or don't feel adequately protected, they may not pay enough attention to their often-dangerous jobs and surroundings and make unsafe decisions.

Discomfort may also cause workers not to wear masks properly, eliminating the protective properties they offer and increasing safety risks. In addition, employees are less likely to be productive and deliver their best work when they're uncomfortable.



## DESIGNED FOR MAXIMUM COMFORT

From the materials it's made of to its tailored fit, the HM7700 Half Mask is designed to provide maximum employee comfort, as well as optimal protection, flexibility and durability.

Made from 100% premium-grade, skin-contact safe silicone, HM7700 Half Mask is our lightest silicone facepiece. Its lightweight, contoured design reduces the "weighed down" feeling of many comparable elastomeric respirators.

Our HM7700 Half Mask also features a cradle suspension system that helps prevent the slipping that's common with conventional strap systems. The upper head straps have minimum give to provide secure support. The lower head straps stretch and move with the wearer, helping ensure greater comfort without pulling on the facepiece.

The contoured sealing surface eliminates pressure points as well, while the extended side flanges ensure the best possible seal during talking or other facial motions. The mask's design provides greater support around the chin area and more flexibility on the nose bridge. The varying thickness in the sealing areas also contributes to optimal comfort and enhanced fit and support.

In addition, minimal dead air space in the HM7700 Half Mask improves worker comfort by limiting re-breathing of exhaled air. Its low inhalation and exhalation resistance also makes breathing easier to reduce worker fatigue.

## DURABILITY FACILITATES LASTING BENEFITS

The durability of elastomeric respirators is critical for maximizing long-term worker protection and cost-efficient use. Both the material composition and design of the HM7700 Half Mask help ensure its resilience, maintainability and lasting performance.

Silicone, in general, is known to have high tear resistance, superior tensile strength, good elongation, flexibility and a low compression set. This further helps extend product life. Because silicone resists distortion, its use in the HM7700 Half Mask contributes to a better fit that lasts over time — and a better fit translates to better protection.

In addition, softer forms of silicone, like that used in the HM7700 Half Mask, have the ability to retain their softness indefinitely. That helps ensure that the mask's comfort features last throughout its lifecycle as well.

Another benefit of the use of silicone is that it is non-reactive with chemicals as well as many other fluid materials. This enables the silicone seals in the HM7700 Half Mask to remain durable when exposed to fluids that could wear down other elastomeric materials over time.

All of these material benefits contribute to durability, enabling the HM7700 Half Mask to be repeatedly disinfected, cleaned and reused. That, in turn, contributes to greater cost efficiencies.



## FLEXIBILITY AND FUNCTION

Our HM7700 Half Mask is also designed for versatility. The integration of features that ensure optimal comfort and protection enables it to protect workers in a wide range of work environments and for long time periods.

In addition to its comfort features, the HM7700 Half Mask is easy to take on and off, clean and reuse. It's available in three overlapping sizes that will comfortably fit most users. Its low-profile design gives workers a wide field of vision. It doesn't interfere with protective eyewear and easily fits under helmets and face shields for more versatile use.

It easily connects to a Powered Air Purifying Respirator (PAPR) or Continuous Flow Supplied Air Respirator (CF-SAR). It's compatible with our bayonet filters and cartridges for use in multiple applications.

## BEYOND EXPERTISE

With proven expertise in protecting workers against respiratory hazards for decades and a deep understanding of worker needs, we offer a full range of respiratory protection solutions that set the standard for lasting comfort, fit, safety and efficiency. But it's not just about what we know. It's also a matter of what we do.

We listen to our customers — those who directly use our products and those responsible for purchasing and supplying them. We combine their input with our vast knowledge of industrial safety, use of leading-edge technologies and advanced materials and commitment to innovation to continually develop best-in-class products that improve worker safety, compliance and comfort.

The comfort, durability and versatility of the HM7700 Half Mask exemplify why listening to our customers makes a difference.

## PRODUCT FEATURES

- Lightweight, contoured design
- Soft, medical-grade silicone that conforms to facial features for worker comfort
- Optimal seal featuring various thicknesses in the sealing area for improved comfort, with additional support around the chin area and increased flexibility on the nose bridge
- Contoured sealing flange eliminates pressure points
- Extended side flanges ensure the best possible seal during talking or other facial motions
- Cradle suspension system for enhanced fit, reduced slippage
- Low-mask profile provides ample room for safety glasses and goggles

- Reduced dead air space limits re-breathing of exhaled air
- Available in 3 sizes: small, medium and large
- Suitable for multiple environments where protection is required against airborne contaminants
- Easy to clean and maintain
- Can be adapted to PAPR or Supplied Air

## CERTIFICATION

EU standards approved as:

- Air-purifying respirators when used with our cartridges and/or filters

| TECHNICAL PARAMETERS                                    |                        |
|---------------------------------------------------------|------------------------|
| ASSIGNED PROTECTION FACTORS                             |                        |
| Air Purifying Half Mask                                 | 10                     |
| Powered Air Purifying Half Mask                         | 50                     |
| MASK WEIGHT                                             |                        |
| 130 grams (4.48 oz) not including cartridges or filters |                        |
| MATERIAL COMPOSITION (LATEX-FREE)                       |                        |
| FACEPIECE                                               |                        |
| Facepiece                                               | Premium Grade Silicone |
| Cartridge Connector                                     | Silicone Polypropylene |
| Inhalation Valve                                        | Rubber                 |
| Exhalation Valve                                        | Rubber                 |
| Exhalation Valve Seat                                   | Polyphenylene Oxide    |
| Exhalation Valve Guard                                  | Polyisoprene           |
| CRADLE SUSPENSION                                       |                        |
| Cradle Straps                                           | Polyethylene           |
| Head Straps                                             | Nylon, Woven Elastic   |
| Yoke                                                    | Polyethylene           |
| Hook & Eye                                              | Polyethylene           |
| Slide                                                   | Polyethylene           |
| SKU INFORMATION                                         |                        |
| DESCRIPTION                                             | SKU                    |
| Premium Grade Silicone Half Mask, Size Small            | HM7700BS               |
| Premium Grade Silicone Half Mask, Size Medium           | HM7700BM               |
| Premium Grade Silicone Half Mask, Size Large            | HM7700BL               |

## For more information

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### FOR TECHNICAL QUESTIONS

### PPE TECHNICAL SUPPORT PORTAL:

<https://sps-support.honeywell.com/s/>

[www.pip-hsp.com](http://www.pip-hsp.com)

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