### Product Name | Catalog Number | Filtration BFE | PFE | Breathability (ΔP: mm H2O/cm²) | Anti-Fog Feature | Face Shield Availability
--- | --- | --- | --- | --- | --- | ---
3M™ Aseptex™ Molded Surgical Mask | 1800-NL | >96% | n/a | <2.0 | n/a | —
3M™ Tie-on Surgical Mask | 1818 | >99% | >95% | <2.0 | n/a | 1818 FS
3M™ Anti-fog Surgical Mask with Foam | 1832 | >99% | >99% Submicron | <2.3 | Foam strip | —
3M™ High Fluid-Resistant Tie-on Surgical Mask | 1835 | >99% | >99% Submicron | <2.8 | n/a | 1835FS
3M™ Filtron™ High-Performance Tie-on Surgical Mask | 1838 | >99% | >95% | <2.0 | n/a | —
3M™ Standard Procedure Mask | 1826 | >95% | n/a | <2.0 | n/a | —
3M™ High Fluid-Resistant Procedure Mask | 1840 | >99% | >99% Submicron | <2.8 | n/a | 1840FS
3M™ N95 Health Care Particulate Respirator and Surgical Mask-cone | 1860 | >99% | >95% (N95)* | <6.5 | Foam strip | —
3M™ N95™ Health Care Particulate Respirator and Surgical Mask - three-panel, flat-fold | 1870 | >99% | >95% (N95)* | 4.9 | Foam strip | —

1 BFE % (Bacterial Filtration Efficiency)

In Vitro: ASTM F2101-01

A standard procedure for comparison of filtration materials. It measures the percent efficiency at which the facemask restricts bacteria from passing through the mask. This test evaluates how well a respirator or surgical mask can prevent biological particles from being expelled by the wearer into the environment. The mask material is subjected to an aerosol of Staphylococcus aureus bacteria at a constant flow rate. Bioaerosol particles generated during the BFE test are “large” on the order of 1 to 5 microns in size with a mean diameter of 3 microns. A particle size sampler with agar plates measures bacteria with and without the mask material in place and percent efficiency is calculated.

In Vivo: Modified Greene and Vesley Method

It is a standard procedure for measuring the percent efficiency at which the facemask restricts bacteria from passing through the mask while wearing it on the face. A mask is placed on a person, and the concentration of exhaled bacterial particles with a mean diameter of 4 to 5 microns is measured both with and without the mask present. The mask material is placed on a person, and the concentration of exhaled bacterial particles with a mean diameter of 4 to 5 microns is measured both with and without the mask present. The percent efficiency is calculated.

Note: Materials used for Respirator Filtration Efficiency tests are much smaller, approximately 0.3 microns in size. The BFE test is a relative indicator of the performance of a medical, surgical or patient care mask but not a complete comparison. The results cannot be compared to Respirator Certification Filtration Efficiency.

2 PFE % (Particulate Filtration Efficiency)

This In Vitro Latex Particulate Challenge Test ASTM F2299-03 (ASTM F 1215-89) is a standard test method that measures the percent efficiency at which the facemask restricts particulate matter from passing through the mask. It measures the filter efficiency of a surgical or patient care mask against an aerosol created from a solution of water and latex spheres with a mean diameter of 0.1-micron particles at a flow rate of less than 30 litres per minute (LPM). Particle counts of the upstream and downstream flows are measured with a laser particle counter. This testing provides an evaluation of Submicron Efficiency Performance, when the material is greater than or equal to 98%.

Note: Particulate Respirator Filters are tested against particles of approximately 0.3 microns in size at 85 LPM. Because the test conditions are not the same, the filter efficiency results of these two types of testing cannot be compared.

3 Breathability, Delta P (ΔP)

The ability of a facemask’s material construction to minimize fluids from traveling through the mask. Fluid resistance helps reduce potential exposure to blood and bodily fluids caused from splashes, sprays or spatter.

ASTM F1862-00a is a standard test method for resistance of medical facemasks to penetrate synthetic blood. An actual mask is conditioned in a high humidity environment to simulate human use and is placed on a test holder. Synthetic blood (2cc) is shot horizontally at the mask at a distance of 30 cm (12 inches). Surgical masks are tested on a pass/fail basis at three velocities corresponding to the range of human blood pressure (80, 120, 160 mmHg). The inside of the mask is then inspected to see if any synthetic blood has penetrated to the inside of the mask.

Fluid resistance according to this testing method is when the device passes at any level.

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# Infection Prevention Solutions

## Face Masks and Respirators

A full line for your infection prevention and personal protection needs from a healthcare leader.

## Attachment Design

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<tr>
<td>Earloop</td>
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<tr>
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<td>Small size</td>
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<td>Flat fold, three-panel</td>
<td>Soft inner liner, Individually packaged surgical/laser mask, Single dispensing</td>
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For more information contact your 3M Infection Prevention Solutions representative or call 1 800 3M Helps.
You can also visit us online at www.3M.com/CA/IP.