NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: 3M  
Model Tested: 1860  
Date Tested: December 14, 2021

These findings pertain to the 3M, model 1860. The packaging and labeling indicate that it is a NIOSH-approved product, under approval number TC-84A-0006. 3M has indicated that this product is likely counterfeit.

Twenty respirators were submitted for evaluation. The samples were tested using a modified version of NIOSH Standard Test Procedure (STP) TEB-APR-STP-0059.

The maximum and minimum filter efficiency was 99.68% and 98.52%, respectively. All twenty respirators measured more than 95% filter efficiency.

This product has head bands/straps. While filter efficiency shows how well the filter media performs, users must ensure a proper fit is achieved.

This assessment is not a part of the NIOSH respirator approval process and will in no way lead to or preclude NIOSH approval through the official approval process. This assessment was developed as an assessment of the filter efficiency for those respirators represented as certified by an international certification authority, other than NIOSH, to support the availability of respiratory protection to US healthcare workers due to the respirator shortage associated with COVID-19. Only particulate filter efficiency was assessed.

The results provided in this letter are specific to the subset of samples that were provided to NPPTL for evaluation.

These results will be used to update the CDC guidance for Crisis Capacity Strategies (during known shortages).
Evaluation of International Respirators

Test: Modified TEB-APR-STP-0059

Date Tested: December 14, 2021

Report Prepared: December 15, 2021

Manufacturer: 3M

Item Tested: 1860

Country of Certification: USA (42 CFR 84)

<table>
<thead>
<tr>
<th>Filter</th>
<th>Flow Rate (LPM)</th>
<th>Initial Filter Resistance (mmH₂O)</th>
<th>Initial Percent Leakage (%)</th>
<th>Maximum Percent Leakage (%)</th>
<th>Filter Efficiency (%)</th>
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<tbody>
<tr>
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<td>99.54</td>
</tr>
</tbody>
</table>

Minimum Filter Efficiency: 98.52%
Maximum Filter Efficiency: 99.68%

- The test method utilized in this assessment is not the NIOSH standard test procedure that is used for certification of respirators. Respirators assessed to this modified test plan do not meet the requirements of STP-0059, and therefore cannot be considered equivalent to N95 respirators that were tested to STP-0059.
- Respirators tested may not be representative of all respirators with the same certification mark. NIOSH has no control over suppliers and distributors of respirators certified by other national or international parties.
- This assessment is not a confirmation that it conforms with any or all of its specifications in accordance with its certification mark.
- This assessment was not a part of the NIOSH approval program. These results do not imply nor preclude a future approval through the NIOSH respirator approval program.
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</thead>
<tbody>
<tr>
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</table>

Minimum Filter Efficiency: 98.66%
Maximum Filter Efficiency: 99.68%

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Health Care Particulate Respirator and Surgical Mask
Respirateur contre les particules pour soins de santé et masque chirurgical
Respirador para partículas y mascarilla quirúrgica para cuidado de la salud
## RESPIRATOR COMPONENTS

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<tr>
<th>TC-</th>
<th>PROTECTION</th>
<th>1860</th>
<th>1860S</th>
<th>8612F</th>
<th>CAUTIONS AND LIMITATIONS</th>
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</table>

### 1. PROTECTION

**N95 - Particulate Filter** (95% filter efficiency level) effective against particulate aerosols free of oil; time use restrictions may apply.

### 2. CAUTIONS AND LIMITATIONS

- **A**: Not for use in atmospheres containing less than 19.5 percent oxygen.
- **B**: Not for use in atmospheres immediately dangerous to life or health.
- **C**: Do not exceed maximum use concentrations established by regulatory standards.
- **J**: Failure to properly use and maintain this product could result in injury or death.
- **M**: All approved respirators shall be selected, fitted, used and maintained in accordance with MSHA, OSHA and other applicable regulations.
- **N**: Never substitute, modify, add, or omit parts. Use only exact replacement parts in the configuration as specified by the manufacturer.
- **O**: Refer to User's Instructions, and/or maintenance manuals for information on use and maintenance of these respirators.
- **P**: NIOSH does not evaluate respirators for use as surgical masks.

Rev F: 11-19-07
Health Care Particulate Respirator and Surgical Mask
Respirateur contre les particules pour soins de santé et masque chirurgical
Respirador para partículas y mascarilla quirúrgica para cuidado de la salud

Adjustable noseclip
Pinça nasale réglable
Clip nasal ajustable

Cushioning nosefoam
Bande nasale en mousse
Espuma nasal

Comfort straps
Courroies confortables
Bandas para comodidad

3M™ Proprietary Filter Media
Matériau filtrant 3M™ exclusif
Medio filtrante 3M™

Not made with natural rubber latex.
Exempt de latex de caoutchouc naturel.
No hecho de mezcla natural de látex de hule.

Fluid Resistant.
Résistant aux fluides.
Resistente a fluidos.

Meets CDC guidelines for M. tuberculosis exposure control.
Ce produit est conforme aux directives des CDC pour le contrôle de l’exposition à M. tuberculosis.
Cumple con los criterios de Centro de Control y Prevención de Enfermedades (CDC) por sus siglas en inglés) para control de exposición a M. tuberculosis.

IMPORTANT: See insert inside for complete Fitting and User Instructions before using.
IMPORTANT : Avant l’utilisation, consulter la notice à l’intérieur de la boîte pour les directives d’ajustement et d’utilisation complètes.
IMPORTANTe: Antes de usar el producto, consulte el inserto en el interior para obtener las Instrucciones de uso y ajuste.
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