

## NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: 3M

Model Tested: 1860S

Date Tested: April 30, 2021

These findings pertain to the 3M, model 1860S. 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 the modified version of NIOSH Standard Test Procedure (STP) TEB-APR-STP-0059. This modified assessment plan can be found [here](#).

The maximum and minimum filter efficiency was 99.77% and 99.54%, 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:** April 30, 2021

**Report Prepared:** May 3, 2021

**Manufacturer:** 3M

**Item Tested:** 1860S

**Country of Certification:** USA (42 CFR 84)

Pictures have been added to the end of this report.

Filter	Flow Rate (LPM)	Initial Filter Resistance (mmH <sub>2</sub> O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency (%)
1	85	24.7	0.39	0.39	99.61
2	85	27.3	0.36	0.36	99.64
3	85	25.1	0.44	0.44	99.56
4	85	27.0	0.37	0.37	99.63
5	85	24.6	0.30	0.30	99.70
6	85	25.0	0.36	0.36	99.64
7	85	25.2	0.39	0.39	99.61
8	85	25.5	0.35	0.35	99.65
9	85	26.1	0.39	0.39	99.61
10	85	24.4	0.23	0.23	99.77
<b>Minimum Filter Efficiency: 99.56%</b>			<b>Maximum Filter Efficiency: 99.77%</b>		

- 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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**Country of Certification:** USA (42 CFR 84)

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Filter	Flow Rate (LPM)	Initial Filter Resistance (mmH <sub>2</sub> O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency (%)
11	85	25.7	0.46	0.46	99.54
12	85	25.3	0.39	0.39	99.61
13	85	25.7	0.45	0.45	99.55
14	85	25.7	0.35	0.35	99.65
15	85	27.5	0.35	0.35	99.65
16	85	25.9	0.35	0.35	99.65
17	85	25.4	0.41	0.41	99.59
18	85	25.9	0.38	0.38	99.62
19	85	26.5	0.32	0.32	99.68
20	85	25.1	0.38	0.38	99.62
<b>Minimum Filter Efficiency: 99.54%</b>			<b>Maximum Filter Efficiency: 99.68%</b>		

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N95

**3M** MTT-2021-41

Health Care Particulate Respirator and Surgical Mask - Small

Respirateur contre les particules pour soins de santé et masque chirurgical - Petit

Respirador para partículas y mascarilla quirúrgica para cuidado de la salud - Pequeña

1860S



Meets CDC  
guidelines for  
*M. tuberculosis*  
exposure  
control

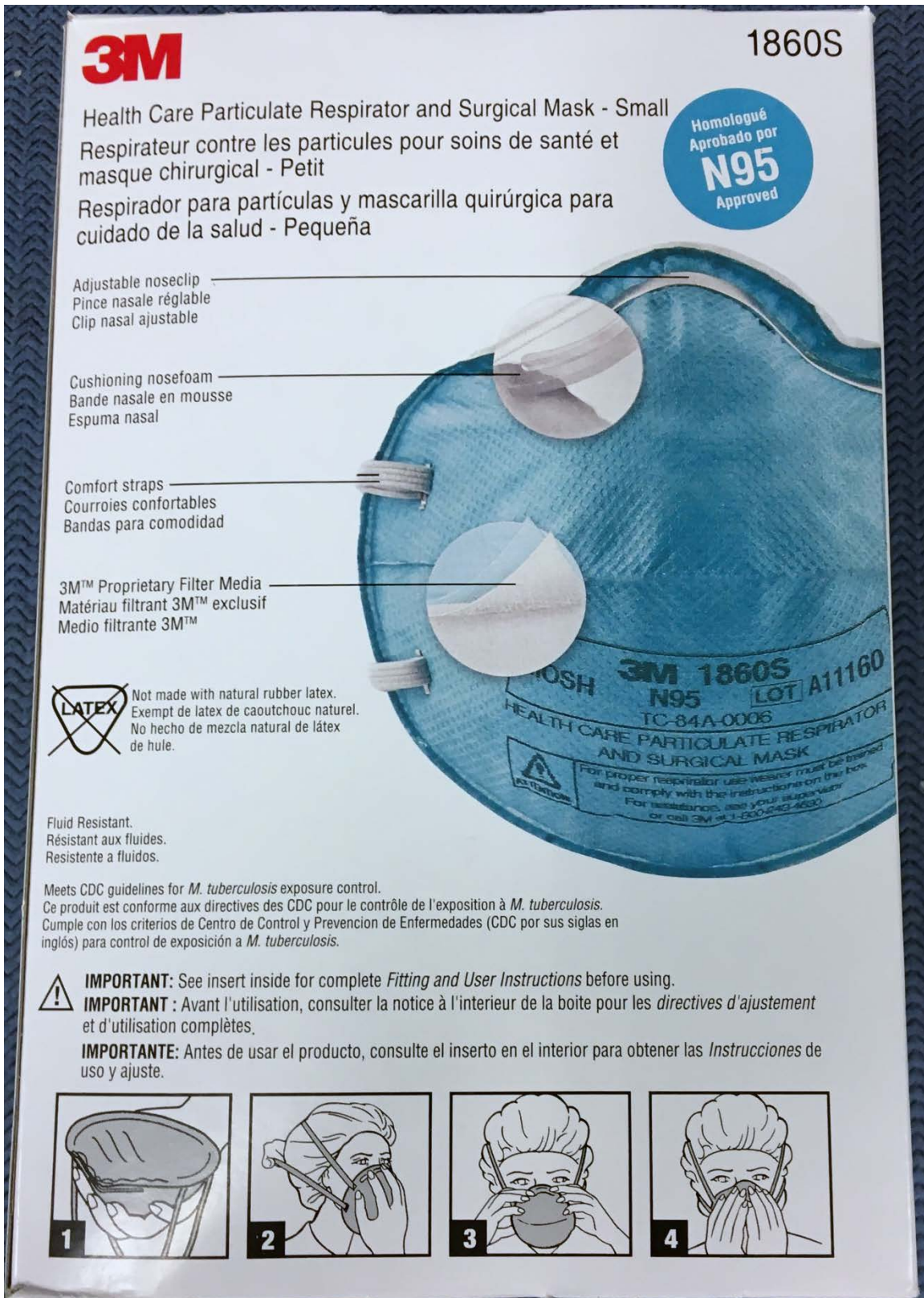
20 

contenido 20 respiradores



Do Not Reuse  
Ne pas réutiliser  
No reutilizar







1860S



**▲ WARNING**

This respirator helps protect against certain particulate contaminants but does not eliminate exposure to or the risk of contracting any disease or infection. **Misuse may result in sickness or death.** For proper use, see supervisor, or *User Instructions*, or call 3M Health Care Helpline at 1-800-228-3957. In Canada, call the 3M Health Care Helpline at 1-800-563-2921.



**▲ MISE EN GARDE**

Ce respirateur protège contre certaines particules contaminantes, mais n'élimine cependant pas le risque d'exposition à une maladie ou une infection ni de les contracter. **Une mauvaise utilisation peut provoquer des problèmes de santé ou la mort.** Pour tout renseignement sur l'utilisation adéquate de ce produit, consulter son superviseur, lire les *directives d'utilisation* ou communiquer, au Canada, avec le Centre de renseignements de la Division des produits de soins de santé de 3M au 1 800 563-2921.



**▲ ADVERTENCIA**

Este producto ayuda a proteger contra ciertos contaminantes suspendidos en el aire, pero no elimina la exposición o el riesgo de contraer alguna enfermedad o infección. **El mal uso puede ocasionar enfermedad o incluso la muerte.** Para su uso adecuado consulte a su supervisor, lea las *Instrucciones*, o llame a 3M en EUA al 1-800-228-3957. En Canadá llame al Servicio Técnico al 1-800-563-2921; en México llame al 55-52-700-400.

Made in U.S.A. with Globally Sourced Materials by



2510 Conway Ave.  
St. Paul, MN 55144  
1-800-228-3957

[www.3m.com/healthcare](http://www.3m.com/healthcare)

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**Storage Conditions and Shelf Life:** For storage conditions and use by date, read *User Instructions* inside.

Fabriqué aux É.-U. avec des matériaux d'origines diverses.

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3M est une marque de commerce de 3M, utilisée sous licence au Canada.

**Conditions d'entreposage et durée de conservation :** Pour connaître les conditions d'entreposage et la date de péremption, consulter les *directives d'utilisation* fournies à l'intérieur de la boîte.

Hecho en EUA con materiales adquiridos globalmente.

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**Condiciones de almacenamiento y vida útil:** Para conocer las condiciones de almacenamiento y uso por fecha, lea las *Instrucciones* en el interior.

2020-06-07

015 0000 0 752

-4°F  
-20°C



+86°F  
+30°C




LOT B20659


2025-06-07




(01)00707387419424(17)250607(10)B20659




1860S



**3M**  
 St. Paul, Minnesota, USA  
 1-800-243-4630  
 1860 Series Respirators



THESE RESPIRATORS ARE APPROVED ONLY  
 IN THE FOLLOWING CONFIGURATIONS:

		RESPIRATOR COMPONENTS			CAUTIONS AND LIMITATIONS <sup>2</sup>
		FILTERING FACEPIECE			
TC-	PROTECTION <sup>1</sup>	1860	1860S	8612F	
84A-0006	N95	X	X		ABCJMNOP
84A-4526	N95			X	ABCJMNOP

**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

34-8718-4395-8

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