

## 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)

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	33.2	1.48	1.48	98.52
2	85	41.2	0.95	0.95	99.05
3	85	33.5	0.52	0.52	99.48
4	85	38.4	0.46	0.46	99.54
5	85	36.1	0.32	0.32	99.68
6	85	38.2	0.53	0.53	99.47
7	85	33.9	0.60	0.60	99.40
8	85	33.1	0.72	0.72	99.28
9	85	30.3	1.24	1.24	98.76
10	85	32.8	0.46	0.46	99.54
<b>Minimum Filter Efficiency: 98.52%</b>			<b>Maximum Filter Efficiency: 99.68%</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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Filter	Flow Rate (LPM)	Initial Filter Resistance (mmH <sub>2</sub> O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency (%)
11	85	33.8	0.35	0.35	99.65
12	85	29.7	0.32	0.32	99.68
13	85	31.3	0.38	0.38	99.62
14	85	33.3	0.69	0.69	99.31
15	85	31.7	0.63	0.63	99.37
16	85	28.7	1.34	1.34	98.66
17	85	30.3	0.50	0.50	99.50
18	85	38.4	0.43	0.43	99.57
19	85	34.4	0.46	0.46	99.54
20	85	25.4	0.91	0.91	99.09
<b>Minimum Filter Efficiency: 98.66%</b>			<b>Maximum Filter Efficiency: 99.68%</b>		

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N95

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

1860




Meets CDC  
guidelines for  
*M. tuberculosis*  
exposure  
control


20


contenido 20 respiradores



Do Not Reuse  
Ne pas réutiliser  
No reutilizar


1860





**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

34-8718-4394-1



1860

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  
 Pince 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™

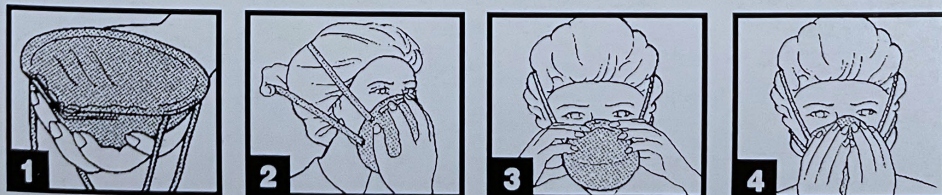
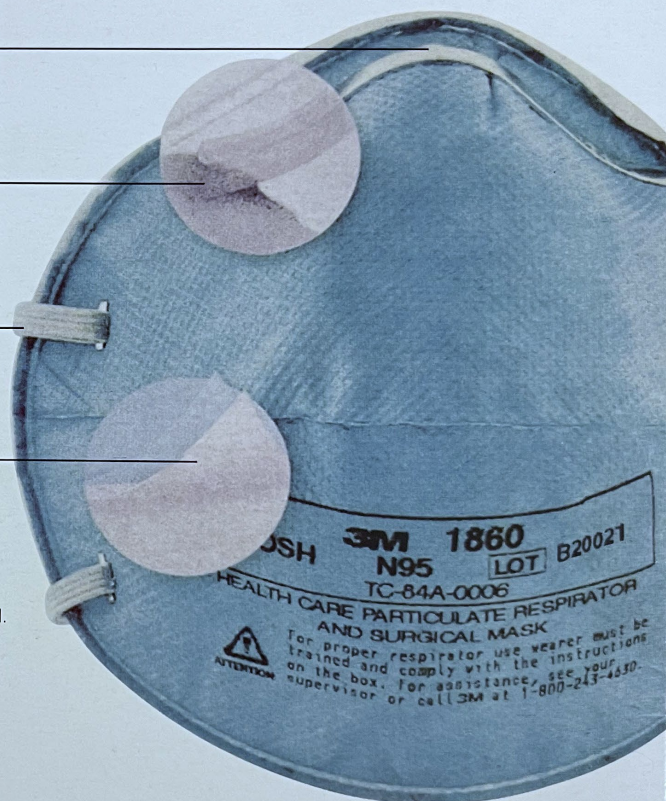


Not made with natural rubber latex.  
 Exempt de latex de caoutchouc naturel.  
 No hecho de mezcla natural de látex de hule.

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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