

## NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: 3M

Model Tested: 1860

Date Tested: February 19, 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.

Ten respirators were submitted for evaluation. The samples were tested using a 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 99.82% and 99.07%, respectively. All ten 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:** February 19, 2021

**Report Prepared:** February 19, 2021

**Manufacturer:** 3M

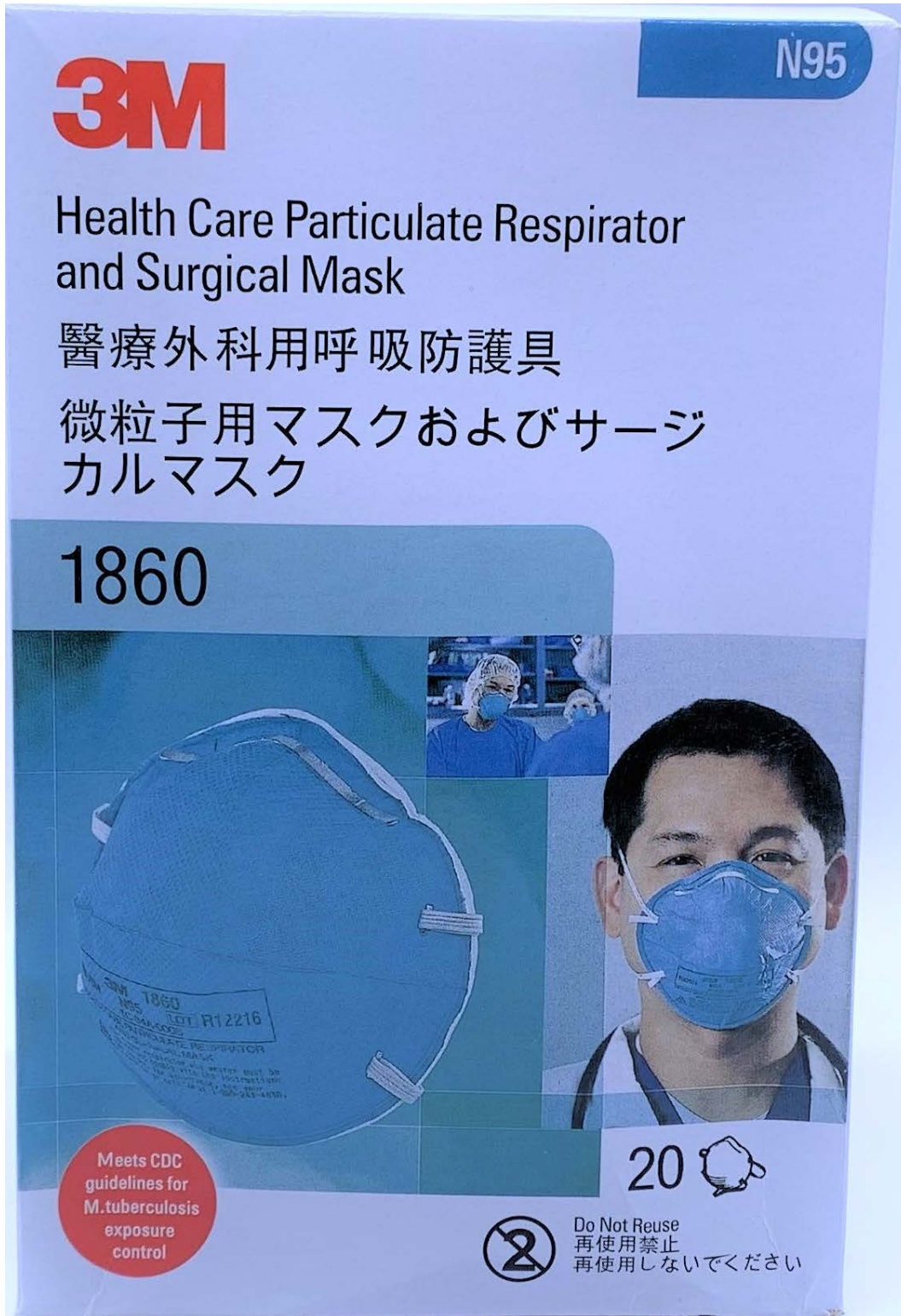
**Item Tested:** 1860

**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	14.5	0.50	0.51	99.49
2	85	17.4	0.22	0.22	99.78
3	85	16.9	0.18	0.18	99.82
4	85	17.4	0.74	0.74	99.36
5	85	17.1	0.66	0.66	99.34
6	85	16.1	0.33	0.33	99.67
7	85	19.4	0.93	0.93	99.07
8	85	15.7	0.33	0.33	99.67
9	85	17.1	0.31	0.31	99.69
10	85	16.3	0.26	0.26	99.74
<b>Minimum Filter Efficiency: 99.07%</b>			<b>Maximum Filter Efficiency: 99.82%</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.





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		ABCJMNO
84A-4526	N95			X	ABCJMNO

**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



1860

# Health Care Particulate Respirator and Surgical Mask

## 醫療外科用呼吸防護具

## 微粒子用マスクおよびサージカルマスク

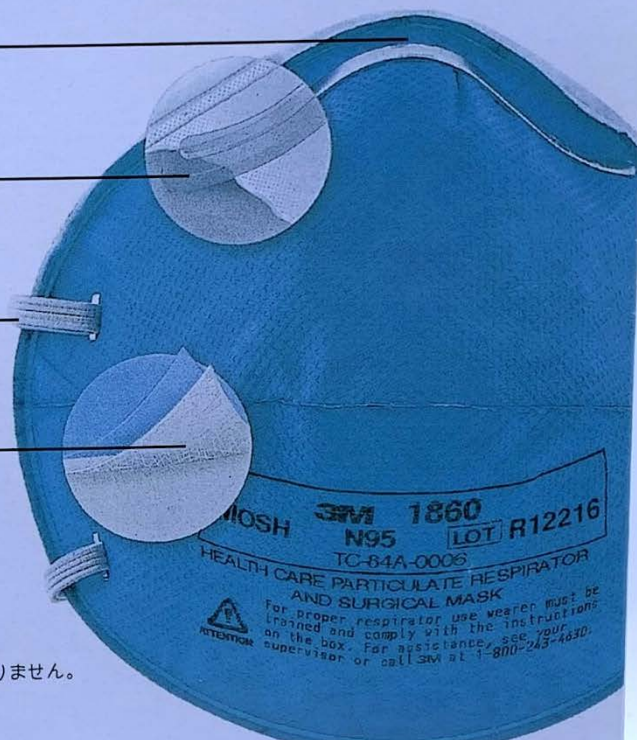


Adjustable noseclip  
可調式鼻樑夾  
調整しやすい鼻当て部

Cushioning nosefoam  
鼻部襯墊  
クッション性のあるノーズフォーム

Comfort straps  
舒適頭帶  
装着しやすい2本のゴムひも

3M™ Proprietary Filter Media  
3M™ 專利濾材  
3M™ 特有のフィルター



Not made with natural rubber latex.  
不含天然乳膠材質。  
製品には天然ゴムを使用しておりません。

Fluid Resistant.  
抗液體噴濺。  
耐水性。

Meets CDC guidelines for *M. tuberculosis* exposure control.  
符合美國CDC指南對肺結核桿菌暴露控制的要求。  
この製品は、CDC（米國疾病管理予防センター）の「医療施設における結核菌感染対策のためのガイドライン」に適合しています。

**IMPORTANT:** See insert inside for complete *Fitting and User Instructions* before using.  
重要：使用前参考内部説明書以取得完整配戴資訊。  
重要：適切な装着のために装着前に取扱説明書をご確認ください。





1860



**⚠ 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.



**⚠ 警告**

此呼吸防護具有助於提供對某些顆粒污染物的呼吸防護，但不能消除暴露或受傳染及染病的風險。錯誤使用可導致疾病甚至死亡。正確的使用方法，請諮詢主管人員或參考本使用說明或與3M公司聯絡，電話：(02)2704-9011。



**⚠ 警告**

このマスクはある種の粒子による汚染からの呼吸器保護に役立ちますが、曝露あるいは疾病または感染にかかる危険性を皆無にするものではありません。誤った使用をされますと健康に障害をおよぼしたり死に至ることがあります。正しい使用方法に関して、取扱説明書を読み、監督者に確認するか、3Mに問い合わせてください。

Made in Singapore by

**3M Health Care**  
2510 Conway Ave.  
St. Paul, MN 55144  
1-800-228-3957  
www.3M.com/healthcare  
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3M is a trademark of 3M Company, used under license in Canada.

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

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3M，為3M公司之商標，於加拿大經授權使用。  
儲存條件及保存期限請參考使用說明書。

製造元：シンガポール。  
無断複写・転載を禁じます。  
3Mは3M社の商標です。  
保管条件と使用期限：取扱説明書をご確認ください。

2020-04-11  
LOT R20102

027 0000 2 767  
2025-04-10



(01)08887719257398(17)250410(10)R20102

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