

NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Guangzhou Harley Commodity Company Limited

Model Tested: L-288

Date Tested: December 9, 2020

These findings pertain to the Guangzhou Harley Commodity Company Limited, model L-288. The packaging and labeling indicate that it is a NIOSH-approved product, under approval number TC-84A-7228.

Thirty respirators were submitted for evaluation. The respirators were sampled into groups of ten 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 99.71% and 97.98%, respectively. All thirty 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 9, 2020

Report Prepared: December 9, 2020

Manufacturer: Guangzhou Harley Commodity Company Limited

Item Tested: L-288 (Sample Group 1 of 3)

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 ₂ O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency (%)
1	85	11.3	1.03	1.22	98.78
2	85	10.8	0.24	0.41	99.59
3	85	9.6	0.27	0.46	99.54
4	85	11.1	0.29	0.66	99.34
5	85	10.3	0.31	0.46	99.54
6	85	10.4	0.29	0.48	99.52
7	85	10.4	0.27	0.42	99.58
8	85	10.2	0.19	0.31	99.69
9	85	9.6	0.29	0.51	99.49
10	85	10.9	0.29	0.47	99.53
Minimum Filter Efficiency: 98.78%			Maximum Filter Efficiency: 99.69%		

- 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.

Evaluation of International Respirators

Test: Modified TEB-APR-STP-0059

Date Tested: December 9, 2020

Report Prepared: December 9, 2020

Manufacturer: Guangzhou Harley Commodity Company Limited

Item Tested: L-288 (Sample Group 2 of 3)

Country of Certification: USA (42 CFR 84)

Filter	Flow Rate (LPM)	Initial Filter Resistance (mmH ₂ O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency (%)
11	85	10.1	0.28	0.63	99.37
12	85	9.9	0.31	0.72	99.28
13	85	10.7	0.28	0.61	99.39
14	85	10.8	0.19	0.42	99.58
15	85	9.5	1.60	1.94	98.06
16	85	11.8	0.14	0.29	99.71
17	85	10.5	0.79	1.09	98.91
18	85	9.8	1.23	1.61	98.39
19	85	10.2	0.75	1.16	98.84
20	85	11.1	0.21	0.42	99.58
Minimum Filter Efficiency: 98.06%			Maximum Filter Efficiency: 99.71%		

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Evaluation of International Respirators

Test: Modified TEB-APR-STP-0059

Date Tested: December 9, 2020

Report Prepared: December 9, 2020

Manufacturer: Guangzhou Harley Commodity Company Limited

Item Tested: L-288 (Sample Group 3 of 3)

Country of Certification: USA (42 CFR 84)

Filter	Flow Rate (LPM)	Initial Filter Resistance (mmH ₂ O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency (%)
21	85	10.0	1.77	1.88	98.12
22	85	11.9	0.32	0.57	99.43
23	85	10.6	0.24	0.52	99.48
24	85	9.8	0.35	0.83	99.17
25	85	11.1	0.79	1.06	98.94
26	85	10.6	0.28	0.68	99.32
27	85	9.5	1.48	2.02	97.98
28	85	11.0	0.37	0.83	99.17
29	85	10.7	0.20	0.55	99.45
30	85	9.8	0.19	0.47	99.53
Minimum Filter Efficiency: 97.98%			Maximum Filter Efficiency: 99.53%		

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Fitting/Warning



FITTING INSTRUCTIONS:

1. Hold the respirator in hand and with the nosepiece at your fingertips. Allow headbands to hang freely below hand.
2. Cup the respirator firmly against your face with the nosepiece on the bridge of your nose.
3. Stretch and pull the lower headband over the head and position below your ears. Stretch and pull the top headband on the back of your head above your ears.
4. Press soft metal to conform snugly around your nose.
5. Seal check
 - To test the fit of a respirator without an exhalation valve , cup both hands over the respirator and exhale sharply.
 - To test the fit of a respirator with an exhalation valve ,cup both hands over the mask and inhale sharply.A negative pressure should be detected inside the respirator.
 - If air flow is felt in the nose area ,re-adjust/tighten the nose clip.
 - If air flow is felt around the edges of the respirator,re-position the respirator/head strap to achieve a better fit.
6. Change the mask immediately if breathing becomes difficult or mask becomes damaged or distorted.
7. Change the respirator if a proper face seal can not be achieved.
8. Careful observance of these instructions is an important step in safe respirator use.



WARNING AND LIMITATIONS:

1. Failure to follow all instructions and limitations can seriously reduce the effectiveness of this respirator and could lead to illness , injury or death .
2. A properly selected respirator is essential . Before occupational use , the wearer must be trained by the employer in the correct use of the respirator in accordance with applicable safety and health standards .
3. This product does not supply oxygen . Use only in adequately ventilated areas containing sufficient oxygen to support life .
4. Discard the respirator and replace with a new one if .
 - A . excessive clogging of the respirator causes breathing difficulty
 - B . the respirator becomes damaged .
5. Leave the contaminated area if dizziness , irritation or other Distress occurs .
6. Keep respirators in the display box away from direct sunlight until use .
7. User ' s must be fit tested prior to wearing this respirator either qualitatively or quantitatively according to 29CFR1910.134
8. Before wearing the mask , respirator users mask must check whether there is crack or spot around the welding spot . if yes , this mask must be discarded at once and can not be used again.

USE LIMITATIONS:

1. Do NOT use the respirator or enter or stay in a contaminated area under the following circumstances :
 - a . atmosphere contains less than 19.5% oxygen .
 - b . if you smell or taste a contaminant .
 - c . for protection against gases or vapors .
 - d . contaminants or their concentrations are unknown or immediately dangerous to life or health .
 - e . concentrations of contaminants exceed maximum use concentrations in applicable OSHA standards or applicable government regulations or 10 times the PEL (Permissible Exposure Limit) , whichever is lower .
 - f . For sandblasting , paint-spray operations asbestos .
 - g . Use in explosive atmospheres .
2. DO NOT modify or misuse the respirator .
3. Do NOT use the respirator with facial hair or any other conditions that may prevent a good face-seal .

Usage



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THESE RESPIRATORS ARE APPROVED ONLY IN THE FOLLOWING CONFIGURATIONS:

TC-	'Protection 1	Respirators	'Cautions and Limitations 2
		L-288	
84A-7228	N95	X	ABCJMNP

1. Protection:

N95 - Particulate Filter (95% filter efficiency level) effective against particulate aerosols free of oil.

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.

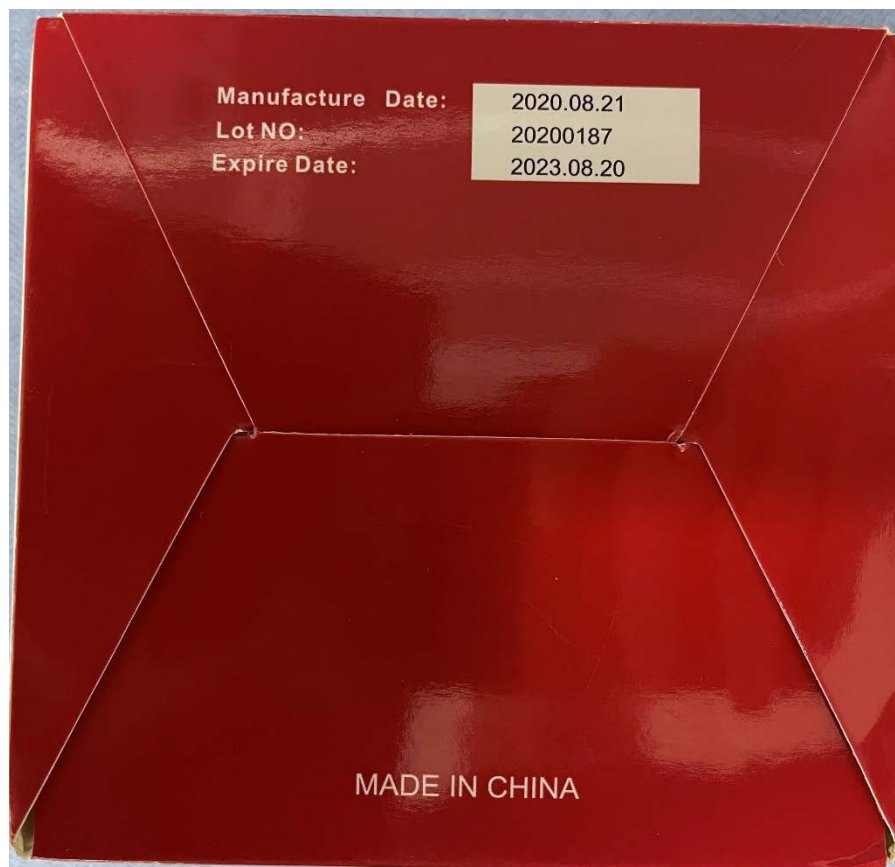
WARNING:

NIOSH APPROVED: N95

95% efficient against particulate aerosols free of oil. This respirator helps protect against certain particulate contaminants but does not eliminate exposure to or the risk of contracting disease or infection. Misuse may result in sickness or death.



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FITTING INSTRUCTIONS:

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2. Cup the respirator firmly against your face with the nosepiece on the bridge of your nose.
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8. Careful observance of these instructions is an important step in safe respirator use.

WARNING:

NIOSH APPROVED: N95

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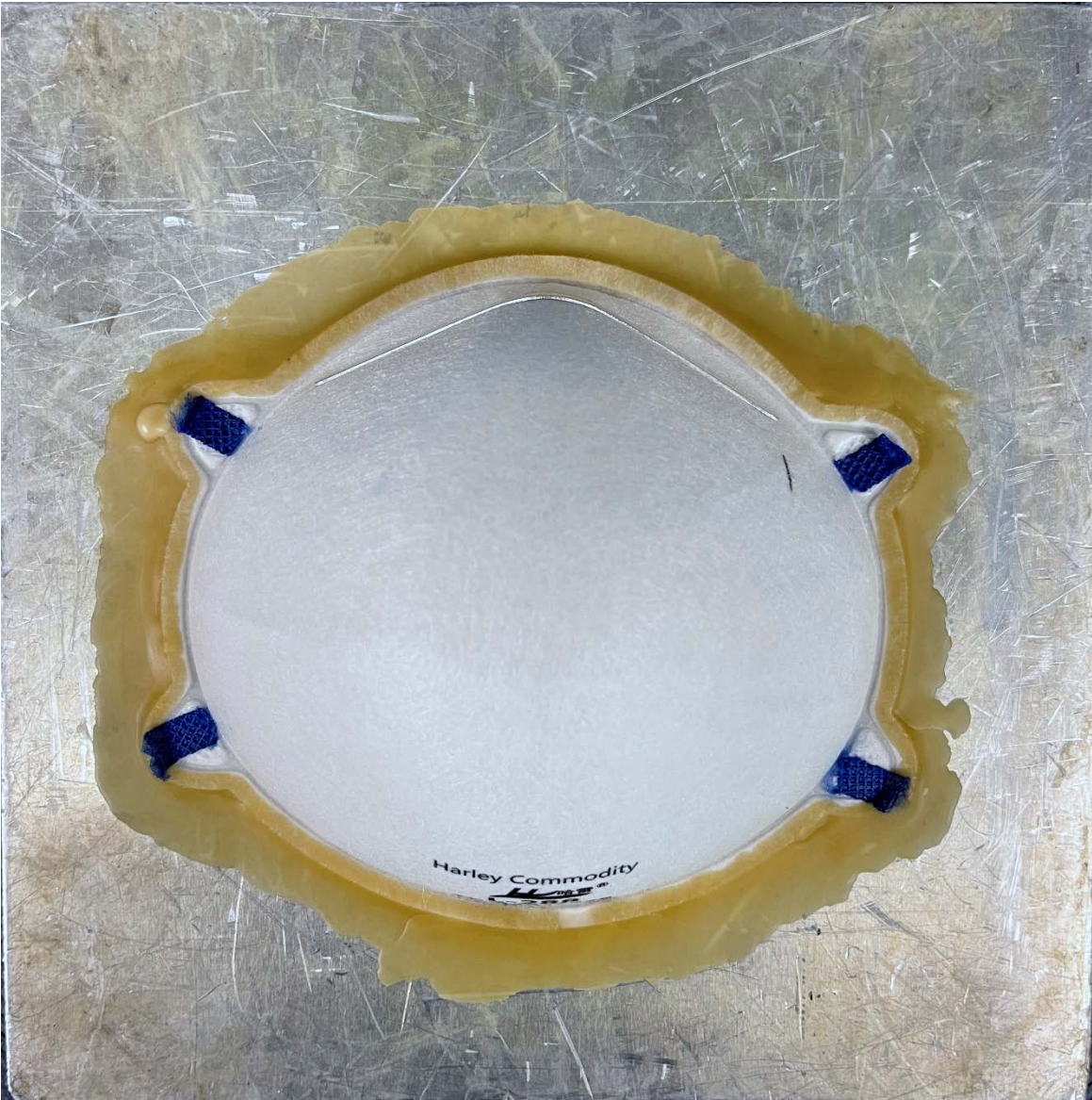
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