Test Results

Respirators help protect against certain particulate contaminants but do not eliminate exposure to or the risk of contracting any disease or infection. Misuse of a respirator can result in exposures that can result in sickness or death.

The test results below indicate the performance of the filtration material specific to the respirator tested. The materials were tested using specialized equipment and protocols, similar but not equivalent to the NIOSH standard procedure TEB-APR-STP-0059; reported filtration efficiencies may differ accordingly. These results do not guarantee that all respirators produced by a manufacturer will have a similar level of filtration efficiency or a similar level of resistance to fluid penetration. These results do not imply a fitness for a particular use or compliance with any federal or international standards. These respirators were not tested in an accredited National Institute for Occupational Safety and Health (NIOSH) testing laboratory, and thus are not NIOSH approved or certified. We have worked with the Advanced Functional Fabrics of America, Inc. (AFFOA) to obtain respirator performance characterization. AFFOA coordinated testing at MIT Department of Chemical Engineering and MIT Lincoln Laboratory where comparable conclusions about mask quality were obtained. The Filtration efficiency measurements listed below were taken by the Massachusetts Institute of Technology. The resistance to fluid penetration measurements below were taken by MIT Lincoln Laboratory.

According to <u>ASTM F 1862</u>, surgical masks are tested on a pass/fail basis at three velocities corresponding to the range of human blood pressure (80, 120, 160 mm Hg). Fluid resistance may be claimed if the device passes ASTM F1862 at the corresponding level. Surgical masks that show passing results at higher velocities are more fluid resistant. The test results below indicate the performance of the specific mask tested.



POWECOM Test date – 4/18/20 - Filtration efficiency: 90.6%

Test date -4/17/20 – Filtration efficiency: 92 %

Visit CDC website for additional information on this product

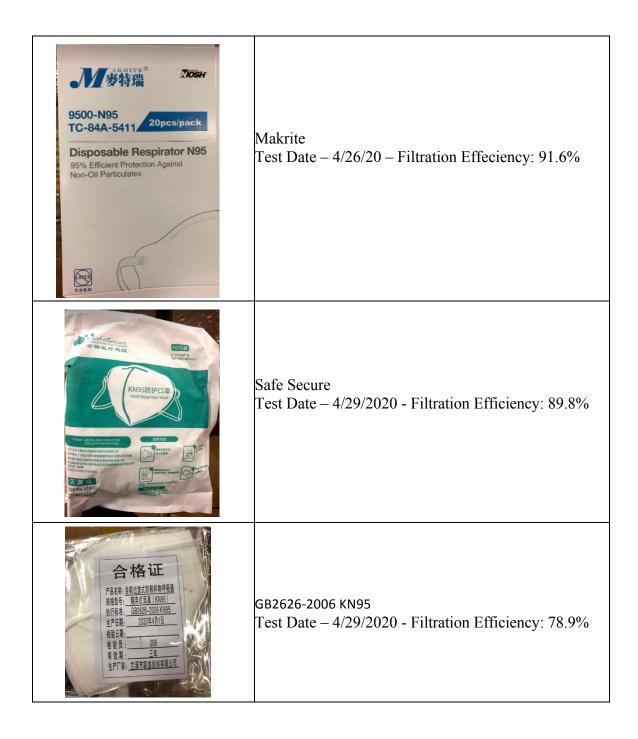
| Particulate Respirator KN95 Contour fit Design Adjustable Nose Foam Contour fit Design | Jiangsu Nanfang Medical CO. LTD Test date – 4/17/20 – Filtration efficiency: 90.3% Test Date – 4/24/2020 – Penetration Resistance Test: Passed High Standard (Level 3, 160mmHg); no soak through |
|---|---|
| 100 100 100 100 100 100 100 100 | Foshan Wei hui Labor Protection Products Co., Ltd Test date – 4/17/20 – Filtration efficiency: 84.2% Test Date – 4/24/2020 – Penetration Resistance Test: Passed High Standard (Level 3, 160mmHg); no soak through, but partial layer penetration along seams |
| | Unlabeled – plastic bag with KN95 on the mask Test date – 4/17/20 – Filtration efficiency: 28.1% |
| HERE ALL ALL ALL ALL ALL ALL ALL ALL ALL AL | KN-95 Disposable Face Mask Test date – 4/16/20 – Filtration efficiency: 52.3% Test Date – 4/27/2020 – Penetration Resistance Test: Passed High Standard (Level 3, 160mmHg); no soak through, but partial layer penetration along seams |
| Schutztan Directorinty to the standard Brade State Construction Constructin Con | SHUYIAN Test date – 4/16/20 – Filtration efficiency: 87.6% |

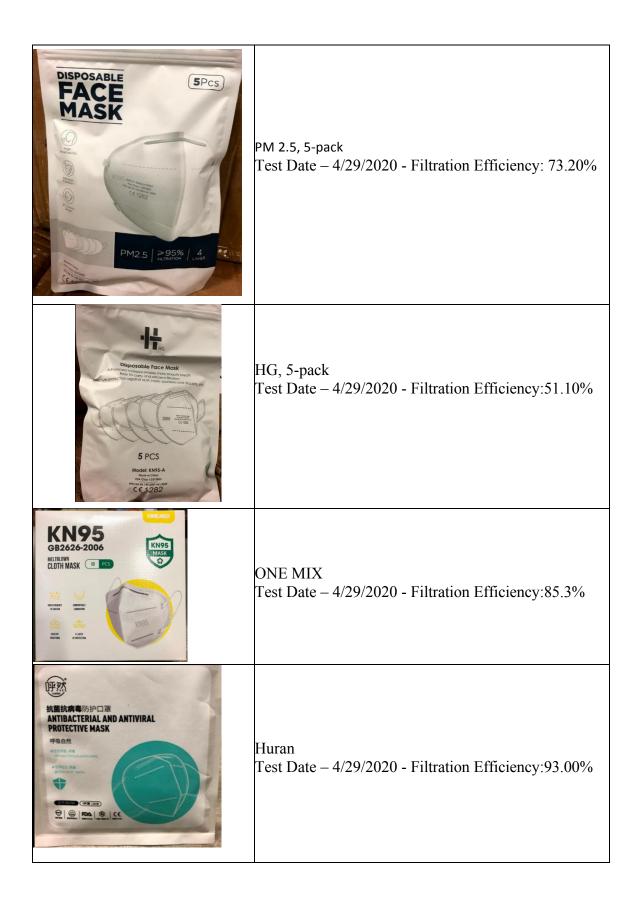
| Protective mask Protective mask Protective mask Protective mask Protective Protective mask Protective Prote | PinzTec Test date – 4/16/20 – Filtration efficiency: 83.6% |
|--|--|
| DIAIS. | SDI Folding Anti-Particulate respirator Test date – 4/16/20 – Filtration efficiency: 91.4% |
| | ESOUND Med Test date – 4/23/2020 – Filtration efficiency: 88.2% Test date –4/27/2020 – Filtration efficiency: 86% Test Date – 4/29/2020 – Penetration Resistance Test: Passed High Standard (Level 3, 160mmHg); no soak through |
| Deraction Prime 1800 to Prime 1800 | Drager Test date – 4/24/2020 – Filtration efficiency: 95% Test Date – 4/29/2020 – Penetration Resistance Test: Passed High Standard (Level 3, 160mmHg); no soak through |
| KENSPECE Market Market M Market Market Mark | AOXING Test date – 4/24/2020 – Filtration efficiency: 87.8% Test Date – 4/27/2020 – Penetration Resistance Test: Passed High Standard (Level 3, 160mmHg); no soak through, but partial layer penetration along seams |

| Porter Son Marker Augusta Son Mar | Dasheng Model DTC3X Test Date – 4/24/2020 – Filtration efficiency: 88.7% Test Date – 4/27/2020 – Penetration Resistance Test: Passed High Standard (Level 3, 160mmHg); no soak through <u>Visit CDC website for additional information on this</u> product |
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| B RN95 Particulate Respirator Particulate Respirator Particulate Respirator Particulate Respirator | Americares Emergency Response BYD CARE Test Date – 4/24/2020 – Filtration efficiency: 89% Test Date – 4/29/2020 – Penetration Resistance Test: Passed High Standard (Level 3, 160mmHg); no soak through |
| KINSTER HE SHE | KN95 (FFP2) Test Date – 4/24/2020 – Filtration efficiency: 70% Test Date – 4/29/2020 – Penetration Resistance Test: Failed |
| ILLERA RESPIRATORY FACE MASK DAVALO- LAG- 124/5 - 26 DAVALO- LAG- 124/5 - 26 | GONGRENCHENGPING Respiratory Face Mask Test Date – 4/24/2020 – Filtration efficiency: 85.9% Test Date – 4/27/2020 – Penetration Resistance Test: Passed High Standard (Level 3, 160mmHg); but partial layer penetration along stitches |
| 200920-EHS-12AS-27 KN95975 WINSON 10 | LVJIANGNAN Test Date – 4/24/2020 – Filtration efficiency: 91.4% Test Date – 4/27/2020 – Penetration Resistance Test: Passed High Standard (Level 3, 160mmHg); no soak through |

| Autor | DASHENG MODEL DTC3W Test Date – 4/26/2020 – Filtration efficiency: 91.8% Test Date – 4/27/2020 – Penetration Resistance Test: Failed |
|--|--|
| AND CAR AND CARDINA CA | Saiertech Test Date – 4/26/2020 – Filtration efficiency: 85.9% Test Date – 4/27/2020 – Penetration Resistance Test: Passed High Standard (Level 3, 160mmHg); no soak through, but partial layer penetration along seams |
| | OANY Test Date – 4/26/2020 – Filtration Efficiency: 62.3% Test Date – 4/29/2020 – Penetration Resistance Test: Failed |
| | Gerber Outerware Test Date – 4/26/2020 – Filtration efficiency: 77.3% Test Date – 4/29/2020 – Penetration Resistance Test: Passed High Standard (Level 3, 160mmHg); no soak through |
| 310 LOPPIO-EHIS MART-32 | PURVIGOR Test Date – 4/27/2020 – Filtration efficiency: 73.4% Test Date – 4/29/2020 – Penetration Resistance Test: Passed High Standard (Level 3, 160mmHg); but partial layer penetration along stitches <u>Visit CDC website for additional information on this</u> product |

| | JCH Industrial, Hong Kong Test Date – 4/27/2020 – Filtration efficiency: 86.7% Test Date – 4/29/2020 – Penetration Resistance Test: Passed High Standard (Level 3, 160mmHg); but partial layer penetration along stitches |
|--|---|
| | Lamdown Test Date – 4/27/2020 – Filtration efficiency: 87.4% Test Date – 4/27/2020 – Penetration Resistance Test: Passed High Standard (Level 3, 160mmHg); but partial layer penetration along stitches |
| MEMA beerd the 200121-EHS-ENAS | N/A Test Date – 4/27/2020 – Filtration efficiency: 62.6% Test Date – 4/29/2020 – Penetration Resistance Test: Failed |
| Biposable Respirator Face Mask Disposable Respirator Face Mask Parties Based and Source Activity of the Source Act | Yiwu Hongbiao Garments Co. Ltd Test Date – 4/29/2020 – Filtration Efficiency: 91.1% |
| ARAN - HA HAR - 37 HAR HAR HAR HAR HAR HAR HAR HAR | 3M KN-95 Campco, Inc. Test Date – 4/29/2020 – Filtration Efficiency: 95.6% |



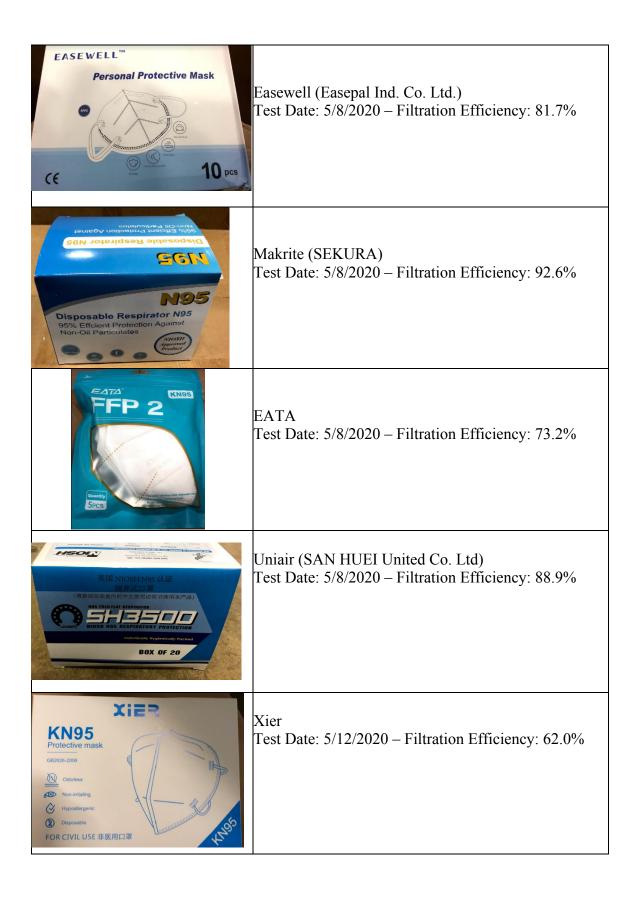


| | Ace Neale Test Date – 4/29/2020 - Filtration Efficiency: 92.0% |
|--|---|
| ALTERNAL ALTERNAL ALTERNAL ALTERNAL ALTERNAL ALTERNAL ALTERNAL ALTERNAL ALTERNAL ALTERNAL ALTERNAL ALTERNAL | Guan Hua Item 9801 Test Date – 4/29/2020 - Filtration Efficiency:84.7% |
| 12PR010001 H00.02M6.PR30030044 | Linxia Test Date – 4/29/2020 - Filtration Efficiency:89.2% |

| KANGERSAN KNOS PARTICULATE RESPIRATOR PARTICULATE RESPIRATOR CE Marticulate Respirator CE Marticulate Respirator Marticulate Respirator M | KANGERDA Test Date – 4/29/2020 – Filtration Efficiency: 70.5% |
|--|---|
| ENTAP2001 200429-EUS-tal5-29 200429-EUS-tal5-29 200429-EUS-tal5-29 | DROMEX (Campo Inc.) Test Date – 4/30/2020 – Filtration Efficiency: 80.9% |
| S.sangsor B. S. Sangsor Market Protecting Encourse Research As dates & Market Market P. Agalest Date. Sange, Pug 25 Market P. Agalest Date. Sange, Pug 25 Market P. Agalest Date. Sange, Pug 25 Market P. Agalest Date. Sange, Pug 26 Market P. Agalest Date. Sanget | S. Sansgo Test Date – 4/30/2020 – Filtration Efficiency: 90.0% |
| | ZHIYI Test Date – 5/5/2020 – Filtration Efficiency: 82.4 % |
| Disposable Efficient Face Mask(KN95) | Chun Lam Group Test Date – 5/5/2020 – Filtration Efficiency: 86.0% |

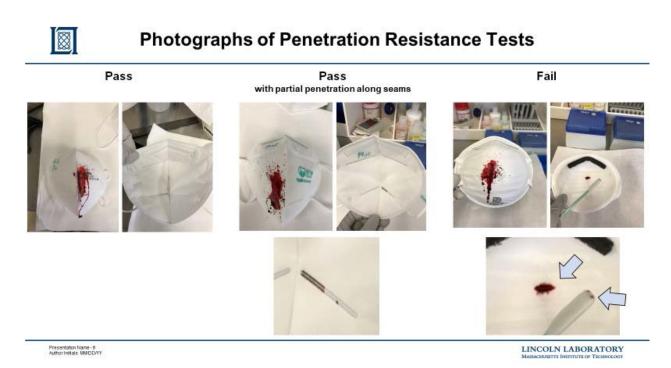
| AND DESCRIPTION OF AND DESCRIPTI | DR. MFYAN Test Date – 5/5/2020 – Filtration Efficiency: 45.5% % |
|--|--|
| RESPIRACION PLEMARE CONTRA PARTICULAS 100-N95 | ALLMAN Test Date – 5/5/2020 – Filtration Efficiency: 92.4 % |
| GB2525-2005 GB2525-2005 KMSS 防护 口罩 (後天雨) ANSY MASY | Doctor Hua (Jiayuan Technology) Test Date – 5/5/2020 – Filtration Efficiency: 63.4 % |
| PROTECTIVE MASK PROTECTIVE MASK | Shenzhen Zhiyou Test Date – 5/5/2020 – Filtration Efficiency: 61.8% |
| | Shanghai Huaxiang Woolen Dressing Huaxiang Woolen Test Date – 5/5/2020 – Filtration Efficiency: 84.1 % |

| China Storage | China Southern Test Date – 5/5/2020 – Filtration Efficiency: 72.8 % |
|--|---|
| | Ocean State Donation Test Date – 5/5/2020 – Filtration Efficiency: 86.0 % |
| FFP2-N95 N. International Marine Monecontaria Presidential Presidential | FFP2 NK International (King Year Printing & Packaging Co. Ltd.) Test Date – 5/5/2020 – Filtration Efficiency: 75.4% |
| | Model:YH006 (Joint China Ltd.) Test Date – 5/5/2020 – Filtration Efficiency: 81.6% |
| BraceDianG BraceDianG 9500 日桂式 許式防全口意 Ing Dust Respirator Busines B | BIWEIKANG Test Date: 5/8/2020 – Filtration Efficiency: 85.5% |



| <image/> <image/> | Spectrum 50-pack Test Date: 5/12/2020 – Filtration Efficiency: 72.5% Eko Test Date: 5/12/2020 – Filtration Efficiency: 41.9% |
|---|---|
| <text></text> | San Huei United Co., Ltd. SH9550 Test Date: 5/12/2020 – Filtration Efficiency: 86.4% |
| Protective Mask + | In Jeolly Test Date: 5/12/2020 – Filtration Efficiency: 83.4% |
| RESPUERTED | Fujian Meinkind Baby Products, Ltd Test Date: 5/12/2020 – Filtration Efficiency: 71.1% |

| | 50 pack donation Test Date: 5/12/2020 – Filtration Efficiency: 91.1% |
|-----------------------------------|---|
| <image/> <image/> | Aumacom Test Date: 5/12/2020 – Filtration Efficiency: 48.5% |
| Particulate Respirator PR-95-Loor | XAM-Med Test Date: 5/12/2020 – Filtration Efficiency: 85.7% |



This document will be updated as additional masks and samples are tested