

K063747



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October 31, 2006

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510(k) Summary

Submitter:

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JAN 12 2007

Contact:

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Trade Name:

Inovel Health Care N95 Particulate Respirators and Surgical Masks, various models.

Common Name:

Health Care N95 Particulate Respirators and Surgical Masks.

Classification:

Name – Surgical Apparel, as described in 21 CFR 878.4040.
Device Class – Class II
Product Code – MSH
CFR Section – 21 CFR 878.4040

Substantial Equivalency:

Inovel Health Care N95 Particulate Respirators and Surgical Masks are found to be substantially equivalent to Inovel Health Care N95 Particulate Respirators and Surgical Masks models 1510 (K062665), 1511, 1512, 1513, 1517 (K061859), 3000N95-XS, 3001N95-S, 3002N95-M, 3003N95-L, 3004N95-LP, 3101N95-S, 3102N95-M/L, and 3104N95-LP (K051182). These products have also been tested and approved by NIOSH as N95 Respirators



510(k) Summary (Continued)

Description:

The Inovel type N95 Healthcare Particulate Respirators and Surgical Masks are constructed from an extruded plastic mesh used in the outer cover and a nonwoven spunbond used in the inner and outer cover. The polypropylene melt blown filter media is layered between the inner and outer cover. The head strap is made of a non-latex rubber stapled to the mask. The inside nosepiece is a closed cell foam.

The Inovel type N95 Healthcare Particulate Respirators and Surgical Masks are approved by NIOSH in accordance with 42 CFR Part 84. The certification numbers are TC-84A-4100 and TC-84A-4101.

The type N95 must meet the prescribed test criteria which specifies the use of 0.055 to 0.095 micron diameter challenge and requiring a 95% efficiency or better. The masks are resistant to synthetic blood as per ASTM F 1862 Standard Test method for Resistance of Medical Face Mask to Penetration by Synthetic Blood. Breathing resistance was tested by NIOSH in accordance to 42 CFR Part 84. The devices have a Bacterial Filtration Efficiency greater than 99.9%. Testing was conducted by Nelson Laboratories using the Modified Green and Vesley Method for evaluation of bacterial filtration efficiency of surgical masks.

Intended Use:

The various models of Inovel Type N95 Healthcare Particulate Respirators and Surgical Masks meet CDC Guidelines for TB Exposure Control within healthcare facilities. These devices are also intended to be worn by healthcare personnel during surgical procedures to protect both the patient and healthcare personnel from the transfer of microorganisms, body fluids and particulate material.

Limitations:

These products do not eliminate the wearer from any risk of contracting any type of disease or infection. The mask should be changed immediately if contaminated with blood or body fluids.

Comparison of Predicate Devices:

The configuration, materials and components are the same for both the previously cleared device and the Inovel device models for which clearance is being requested including the same color of straps.

The Inovel type N95 Healthcare Particulate Respirators and Surgical Masks incorporate a highly efficient filter media and is 95% efficiency or better against aerosols that have a count median diameter of 0.055 – 0.095 microns which was scientifically established as the most penetrating particle size. The legally marketed devices previously cleared 510(k) are manufactured from identical materials.

510(k) Summary (continued)

Device and Predicate Devices Descriptions/ Comparisons

Description	Inovel Health Care N95 Particulate Respirators and Surgical Masks, models MFRN95-S, MFRN95-XS, MFRN95-ML, MFRN95-A, MFRN95-SZ, MFRN95-MLZ	Inovel Health Care N95 Particulate Respirators and Surgical Masks, models 1510 1511, 1512, 1513, 1517, 3211N95-S, 3212N95-M/L	Inovel Health Care N95 Particulate Respirators and Surgical Masks, models 3000N95-XS, 3001N95-S, 3002N95-M, 3003N95-L, 3004N95-LP, 3101N95-S, 3102N95-M/L, 3104N95-LP
Materials			
Outer Cover Fabrics	Ethylene-Vinyl Acetate Copolymer, extruded	Ethylene-Vinyl Acetate Copolymer, extruded	Polypropylene Spunbond and Ethylene-Vinyl Acetate Copolymer, extruded
Nosepiece	Polyethylene foam	Polyethylene foam	Polyethylene foam
Headband	Various colors elastic, latex free	Various colors elastic, latex free	Various colors elastic, latex free
Specification & Dimensions	Overall width: 4 5/8- 7 3/4 inches Overall height: 4 3/4 - 5 1/2 inches	Overall width: 4 5/8- 7 3/4 inches Overall height: 4 3/4 - 5 1/2 inches	Overall width: 4 5/8- 7 3/4 inches Overall height: 4 3/4 - 5 1/2 inches
Mask Style	Molded Cup	Molded Cup	Molded Cup
Design Features	Dual synthetic rubber or single elastic head strap	Dual synthetic rubber or single elastic head strap	Dual synthetic rubber or single elastic head strap
NIOSH Certification#	TC-84A-4100 TC-84A-4101	TC-84A-4333 TC-84A-4338 TC-84A-0013	TC-84A-4102 TC-84A-4103

Risks to Health

Performance Characteristics	Test Method	Acceptance criteria/ Results	Predicate Device Results	Predicate Device Results
		Inovel Health Care N95 Particulate Respirators and Surgical Masks models MFRN95-S, MFRN95-XS, MFRN95-ML, MFRN95-A, MFRN95-SZ, MFRN95-MLZ	Inovel Health Care N95 Particulate Respirators and Surgical Masks models 1510, 1511, 1512, 1513, 1517, 3211N95-S, 3212N95-M/L	Inovel Health Care N95 Particulate Respirators and Surgical Masks models 3000N95-XS, 3001N95-S, 3002N95-M, 3003N95-L, 3004N95-LP, 3101N95-S, 3102N95-M/L, 3104N95-LP
Fluid Resistance Performance	ASTM 1862 - 00a	Models MFRN95-S, MFRN95-XS, MFRN95-ML, MFRN95-A, , MFRN95-MLZ: 32 of 32 pass Model MFRN95-SZ: 31 of 32 pass	Models 1510, 1511, 1513 and 1517, 3211N95-S, 3212N95-M/L: 32 of 32 pass Model 1512 31 of 32 pass	32 of 32 pass
Flammability Class	16 CFR 1610	Flame spread must be within upper and lower limits/ No flame spread on 10 of 10 samples, meets Class I	Flame spread must be within upper and lower limits/ No flame spread on 10 of 10 samples, meets Class I	Flame spread must be within upper and lower limits/ No flame spread on 10 of 10 samples, meets Class I
Filter Efficiency (%)	NIOSH, 42 CFR Part 84	≥ 95% Efficient/ average 99.46% efficient of 40 samples	≥ 95% Efficient/ average 98.58% efficient of 17 samples	≥ 95% Efficient/ average 99.11% efficient of 20 samples
Breathing Resistance (mm H ₂ O)	NIOSH, 42 CFR Part 84	≤ 35.0 mm H ₂ O @ 85 lpm/ average 12.5 mm H ₂ O @ 85 lpm of 18 samples	≤ 35.0 mm H ₂ O @ 85 lpm/ average 10.3 mm H ₂ O @ 85 lpm of 3 samples	≤ 35.0 mm H ₂ O @ 85 lpm/ average 11.3 mm H ₂ O @ 85 lpm of 3 samples



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration
9200 Corporate Boulevard
Rockville MD 20850

Inovel, LLC
C/O Mr. Daniel W. Lehtonen
Responsible Third Party Official
Intertek Testing Services NA, Incorporated
2307 East Aurora Road, Unit B7
Twinsburg, Ohio 44087

JAN 12 2007

Re: K063747

Trade/Device Name: Health Care N95 Particulate Respirators and Surgical Masks,
Models MFRN95-S, MFRN95-XS, MFRN95-ML, MFRN95-A, MFRN95-SZ,
MFRN95-MLZ

Regulation Number: 878.4040

Regulation Name: Surgical Apparel

Regulatory Class: II

Product Code: MSH

Dated: January 2, 20067

Received: January 3, 2007

Dear Mr. Lehtonen:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

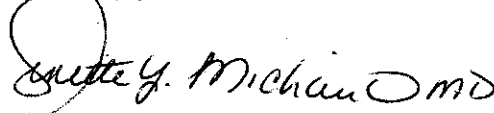
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Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0115. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address <http://www.fda.gov/cdrh/industry/support/index.html>.

Sincerely yours,



Chiu Lin, Ph.D.

Director

Division of Anesthesiology, General Hospital,

Infection Control and Dental Devices

Office of Device Evaluation

Center for Devices and

Radiological Health

Enclosure

Indications for Use

510(k) Number (if known): K063747

Device Name: Health Care N95 Particulate Respirators and Surgical Masks, models MFRN95-S, MFRN95-XS, MFRN95-ML, MFRN95-A, MFRN95-SZ, MFRN95-MLZ

Indications for Use:

The various models of Inovel Type N95 Healthcare Particulate Respirators and Surgical Masks meet CDC Guidelines for TB Exposure Control within healthcare facilities. These devices are also intended to be worn by healthcare personnel during surgical procedures to protect both the patient and healthcare personnel from the transfer of microorganisms, body fluids and particulate material.

Prescription Use _____ AND/OR Over-The-Counter Use X
(Part 21 CFR 801 Subpart D) (21 CFR 801 Subpart C)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

Shelby H. Murphy MD
(Division Sign-Off)
Division of Anesthesiology, General Hospital,
Infection Control, Dental Devices

510(k) Number: K063747