510(k) SUMMARY K041707

JUL 3 0 2004

NAME & ADDRESS: DENTSPLY International
Susquehanna Commerce Center
221 West Philadelphia Street
York, PA 17405-0872
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CONTACT: P. Jeffery Lehn

DATE PREPARED: June 18, 2004

TRADE OR PROPRIETARY NAME: CERCON® CERAM EXPRESS Ceramic System

CLASSIFICATION NAME: Porcelain powder for clinical use (872.6660)

PREDICATE DEVICE: Cercon® Ceram S Porcelains (K022796)

DEVICE DESCRIPTION: The CERCON® CERAM EXPRESS Ceramic System consists of a dental ceramic veneering material developed for veneering zirconium oxide substructures for fixed prosthodontics devices that include both anterior and posterior crowns and bridges. The modified device is a glass/glass-ceramic mixture used to veneer zirconia substrates in a medium-pressure, lost-wax injection molding (pressing) process. The modified device consists of a translucent material and an opaque material.

INTENDED USE: Designed for use on zirconia (zirconium oxide) in single tooth or bridge type restorations. Applications include tooth anterior and posterior locations.

TECHNOLOGICAL CHARACTERISTICS: CERCON® CERAM EXPRESS Ceramic System represents a modification to Cercon® Ceram S Porcelains (K022796). Changes have been made to the device's formulation, material form, and processing technique.

All of the components found in CERCON® CERAM EXPRESS Ceramic System have been used in legally marketed devices.

We believe that the prior use of the components of CERCON® CERAM EXPRESS Ceramic System in legally marketed devices, the similarity in the formulations between the modified and the marketed device, and the data provided regarding the modifications to the marketed device support the safety and effectiveness of CERCON® CERAM EXPRESS Ceramic System for the intended use.

DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration
9200 Corporate Boulevard
Rockville MD 20850

JUL 30 2004

Mr. P. Jeffery Lehn
Director, Corporate Compliance and Regulatory Affairs
DENTSPLY, International
Susquehanna Commerce Center
221 West Philadelphia Street, Suite 60
York, Pennsylvania 17404

Re: K041707
Trade/Device Name: CERCON® CERAM EXPRESS Ceramic System
Regulation Number: 21 CFR 872.6660
Regulation Name: Porcelain Powder for Clinical Use
Regulatory Class: II
Product Code: EIH
Dated: June 18, 2004
Received: June 23, 2004

Dear Mr. Lehn:

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.

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 (301) 594-4613. 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/dsma/dsmamain.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 STATEMENT

(As Required by 21 CFR 807.87(e)

510(K) Number (if known): K041707

Device Name: **CERCON® CERAM EXPRESS Ceramic System**

Indications for Use:

Designed for use on zirconia (zirconium oxide) in single tooth or bridge type restorations. Applications include tooth anterior and posterior locations.

Prescription Use __X___ AND/OR Over-The-Counter Use _____
(Part 21 CFR 801 Subpart D) (21 CFR 807 Subpart C)

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

Concurrence of CDRH, Office of Device Evaluation (ODE)

(Division
Division of Anesthesiology, General Hospital,
Infection Control, Dental Devices

510(k) Number K041707