

# K 993192

## 510(k) Summary ILLUSION™

1. Bisco, Inc.  
1100 W. Irving Park Road  
Schaumburg, IL 60193  
847-534-6000  
Contact: Kathryn B. Patterson, Regulatory Affairs Manager  
Date Prepared: September 14, 1999
2. Device Trade Name: ILLUSION  
Common/Usual Name: Dental Resin Cement  
Classification Name: Dental Cement [21 CFR 872.3275]
3. Predicate Device: Choice™, K875313 (cleared March 10, 1988)
4. ILLUSION, a universal, dual-cured resin cement, is based on an opacity/translucency (value) system, and is intended for the cementation of porcelain and composite inlays, onlays, crowns and veneers. ILLUSION can also be used for conventional cementation of metallic inlays, onlays, crowns and fixed partial dentures.
5. Intended Use of ILLUSION:
  - dental resin cement
6. ILLUSION possesses the same technological characteristics as the predicate device, Choice. Below is a table which shows a side-by-side comparison of the technological characteristics.

| Technological Characteristic                         | Choice      | ILLUSION    |
|--|-------------|-------------|
| Intended Use   | Cement      | Cement      |
| Chemical Composition                                 | Dual-cured  | Dual-cured  |
| Physical/Mechanical Properties:                      |             |             |
| <i>Diametrical Tensile Strength (L/C*)</i>           | 49 MPa (8)  | 43 MPa (8)  |
| <i>Diametrical Tensile Strength (C/C**)</i>          | 38 MPa (8)  | 41 MPa (8)  |
| <i>Compressive Strength (L/C)</i>                    | 198 MPa (6) | 260 MPa (6) |
| <i>Compressive Strength (C/C)</i>                    | N/A         | 231 MPa (6) |
| <i>Barcol Hardness (L/C 20 sec., 2 mm thickness)</i> | 79/60 (3)   | 82/59 (3)   |
| <i>Modullus (L/C)</i>                                | 8.7 GPa (5) | 5.6 GPa (5) |
| <i>Working Time (Min:Sec)</i>                        | 5:00/10:00  | 4:30/9:30   |

\*Light-cured

\*\*Chemical-cured



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration  
9200 Corporate Boulevard  
Rockville MD 20850

OCT 27 1999

Ms. Kathryn B. Patterson  
Regulatory Affairs Manager  
Bisco, Inc.  
1100 W. Irving Park Road  
Schaumburg, IL 60193

Re: K993192

Trade Name: Illusion  
Regulatory Class: II  
Product Code: EMA  
Dated: August 23, 1999  
Received: August 24, 1999

Dear Ms. Patterson:

We have reviewed your Section 510(k) notification of intent to market the device referenced above and we have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to 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). 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 (Pre-market Approval), 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 895. A substantially equivalent determination assumes compliance with the Good Manufacturing Practice for Medical Devices: General (GMP) regulation (21 CFR Part 820) and that, through periodic GMP inspections, the Food and Drug Administration (FDA) will verify such assumptions. Failure to comply with the GMP regulation may result in regulatory action. In addition, FDA may publish further announcements concerning your device in the Federal Register. Please note: this response to your premarket notification submission does not affect any

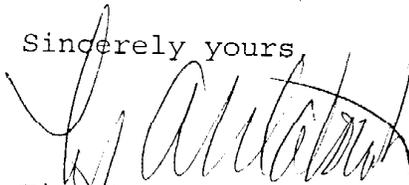
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obligation you might have under sections 531 through 542 of the Act for devices under the Electronic Product Radiation Control provisions, or other Federal laws or regulations.

This letter will allow you to begin marketing your device as described in your 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 and additionally 809.10 for in vitro diagnostic devices), please contact the Office of Compliance at (301) 594-4692. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its internet address "<http://www.fda.gov/cdrh/dsmamain.html>".

Sincerely yours,



Timothy A. Ulatowski  
Director  
Division of Dental, Infection Control  
and General Hospital Devices  
Office of Device Evaluation  
Center for Devices and  
Radiological Health

Enclosure

K993192

**Attachment 2 – Indications for Use**

Indications for Use

510(k) Number (if known): K875313

Device Name: ILLUSION™

Indications for Use:

1. Dental Resin Cement

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

Concurrence of CDRH, Office of Device Evaluation (ODE)

Prescription Use   X    
(Per 21 CFR 801.109)

OR

Over-the-Counter Use \_\_\_\_\_

(Optional Format 1-2-96)

*Sven Puskar*

\_\_\_\_\_  
(Division Sign-Off)  
Division of Dental, Infection Control,  
and General Hospital Devices

510(k) Number           K993192          

**000002**