MDI
Mini Dental Implants

Product Catalog
3M™ ESPE™ MDI Mini Dental Implants

Terms and Conditions
Effective March 1, 2011

3M ESPE focuses on dental applications and the development of new technology to simplify dentistry and significantly improve the lives of our customers globally. IMTEC, now part of 3M ESPE, originally created a revolution in implantology with the introduction of the IMTEC MDI Implant system and has grown into the global leader in small diameter implants, now the 3M ESPE MDI mini dental implant system. As a progressive company, 3M ESPE continues to provide innovative solutions through our line of implants, dental products and digital dentistry technology that reflect our expertise in minimally invasive implantology.

3M ESPE is committed to help redefine the evolving field of dentistry, with the goal of providing products and services that transform the way clinicians practice today and significantly improve the lives of our customers globally.

MDI Mini Dental Implant System

Great care is taken in the selection of materials, production methods, sterilization and packaging of 3M ESPE dental implants and associated components. Strict inspection procedures have been established to ensure all 3M ESPE dental implant products are in compliance with an array of regulatory standards. 3M ESPE dental implant products are manufactured under a certified ISO 13485 quality system and FDA’s Good Manufacturing Practices (GMP). In addition, they meet the stringent European Medical Device Directive and thus can carry the CE mark. This demonstrates 3M ESPE’s commitment to quality and patient safety.

Quality

3M ESPE dental implant products meet the rigid specifications of the medical device regulations. Many of the products and components are subject to 100% inspection during various stages of production.

Packaging

MDI implants and sterile components utilize packaging configurations that have been validated to provide clean, sterile barriers for a duration of at least five years. Each sterile device includes a removable patient chart label for future referencing and simplified record keeping. Dental instrumentation and components are provided non-sterile unless otherwise noted.

Commitment

Our commitment is to provide the dental profession with state of the art, cost effective dental implants and associated products, coupled with competent, reliable customer service. We stand ready to serve you at all times. Please visit our user friendly website at www.3MESPE.com/implants, or call our toll free number, 1-800-634-2249 x 2 today.

MDI Implant Products—Limited Warranty

3M ESPE warrants to the purchaser that its dental implant products will be free from defects in material and manufacture for the period stated in the product literature for each product. If no period is stated, the warranty period is 1 year from the date of shipment. 3M ESPE MAKES NO OTHER WARRANTIES INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. User is responsible for evaluating whether a product is appropriate for a particular use or application.

3M ESPE’s sole obligation and the buyer’s sole remedy in the event of any claimed defect shall be, at 3M ESPE’s option, repair or replacement of the product, or refund of the purchase price. Written notice of claimed defect must be received by 3M ESPE within reasonable time after discovery not to exceed one year from the date of delivery. Except where prohibited by law, 3M ESPE shall not be liable for any loss or damage arising from its dental implant products, whether direct, indirect, special, consequential, regardless of the theory asserted, including warranty, contract, negligence or strict liability. 3M ESPE neither assumes, nor authorizes any other person to assume on its behalf any additional liability or responsibility in connection with its dental implant products. Defects misuse, neglect, accident or failure to follow recommended procedures or instructions for use or by modification by the buyer or user voids any 3M ESPE dental implant product warranty. CAUTION: United States laws restrict the sale of any 3M ESPE dental implant product or device to licensed physicians, dentists or dental specialists.

Ordering Information

Mail: 3M ESPE PO Box 19582 Irvine, CA 92623-9582
Phone: 1-800-634-2249 X 2
Fax: 1-800-888-3132
On Line: www.3MESPES.com/implants
Order Line Hours: 8:00–5:00 Central Time

Minimum Order

$200.00—A handling charge of $25.00 will be added to orders below this amount. No minimum order for orders placed On-Line @ www.3MESPES.com/implants

Payment Terms

Credit Card (Visa, MasterCard, American Express).

Shipping Policy

Shipments are made F.O.B. shipping point Irvine, California. There is no freight charge for ground transportation. Next day, 2nd day, three day, and Saturday delivery available at an additional charge. For same day shipment, order must be received by 3:00 PM Central. Clinicians are cautioned not to accept packages with exterior damage. If there are shortages or questions, please notify the company within ten days.

Return Policy

In the event you choose to return any 3M ESPE dental implant product, you will require a Return Merchandise Authorization (RMA) number. An RMA number can be obtained simply by calling your MDI Implant Sales Representative at 1-800-634-2249 X 2 within 90 days of the invoice date. Please package all return items in original, unopened and undamaged packaging with the RMA number clearly printed on the outside of the package. A 15% restocking fee will be applied to all qualifying returned items, and a refund will be made in the form of original payment.

Note: Any package returned without a valid RGA number clearly printed on the outside of the package will be refused and returned at the sender’s expense. Any opened product will not be accepted.
We’re behind you.
Now that MDI mini dental implants are part of 3M ESPE, our Clinical Support Network will provide you with all the resources you need to enter the world of implantology.

Now you can do this.
Enroll now for a one-day 3M ESPE Expertise™ MDI Seminar at www.3MESPE.com/ImplantSeminars

By the end of this 7 CE Credit course, you will master the basics of minimally invasive implantology through hands-on training—and take a significant step toward building your practice.

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For more MDI information visit www.3MESPE.com/Implants
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MDI
Mini Dental Implants

MDI Mini Dental Implant System

As the demand for dentures continues to boom, there has never been a better time to start offering the MDI treatment plan in your practice.

Introduced in 1999 as the IMTEC Sendax MDI™ System, the MDI Mini Dental Implant System is a market-leading small-diameter implant system, and has quickly become one of the hottest dental products on the market. To the thousands of doctors using the system, it's no secret why the MDI system is so popular: results.

**MDI Benefits:**
- Minimally invasive procedure
- Often no grafting necessary
- Immediate load
- Very cost-effective for the dental practice
- Very affordable for denture patients

MDI is not the only small-diameter implant system available, but there are plenty of reasons why it is a global market-leading system and has been for years.

**MDI Features:**
- Implants are placed through a small pilot hole, not into a full osteotomy
- Implant designs for stability in soft and dense bone (essential for immediate loading)
- Attachment designs for customized retention for each case
- Attachment designs that forgive up to 30° divergence between two implants
- Original retention can be restored by simply changing an O-Ring
- A market-leading small-diameter implant training program
How to Get Started with the MDI System

3M ESPE offers market-leading small-diameter implant continuing education solutions. MDI Expertise™ Certification seminars are affordable one-day seminars led by some of the most experienced small-diameter implant clinicians in the nation. Contact your MDI mini dental implant representative to learn more about MDI Expertise™ Certification seminars held in convenient locations nationwide, year-round.

MDI Certification Seminars Offer:
- Expert instructors
- Surgical hands-on training and prosthetic demonstration
- Group discussion
- Opportunity to review potential MDI case diagnostics with your instructor
- 7 CE credits
## MDI Mini Dental Implants

1.8mm Diameter

### O-Ball Implant

<table>
<thead>
<tr>
<th>Ø 1.8mm</th>
<th>10mm</th>
<th>13mm</th>
<th>15mm</th>
<th>18mm</th>
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</thead>
<tbody>
<tr>
<td>Collared O-Ball Implants</td>
<td>OB-10</td>
<td>OB-13</td>
<td>OB-15</td>
<td>OB-18</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ø 1.8mm</th>
<th>10mm</th>
<th>13mm</th>
<th>15mm</th>
<th>18mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classic O-Ball Implants</td>
<td>S1810OB</td>
<td>S1813OB</td>
<td>S1815OB</td>
<td>S1818OB</td>
</tr>
</tbody>
</table>

### Square Head Implant

<table>
<thead>
<tr>
<th>Ø 1.8mm</th>
<th>10mm</th>
<th>13mm</th>
<th>15mm</th>
<th>18mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collared Square Head Implants</td>
<td>SH-10</td>
<td>SH-13</td>
<td>SH-15</td>
<td>SH-18</td>
</tr>
</tbody>
</table>
2.1mm Diameter

<table>
<thead>
<tr>
<th>Ø 2.1mm</th>
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<th>13mm</th>
<th>15mm</th>
<th>18mm</th>
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</thead>
<tbody>
<tr>
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<td>IOB-10</td>
<td>IOB-13</td>
<td>IOB-15</td>
<td>IOB-18</td>
</tr>
<tr>
<td>Classic O-Ball Implants</td>
<td>S1810IOB</td>
<td>S1813IOB</td>
<td>S1815IOB</td>
<td>S1818IOB</td>
</tr>
</tbody>
</table>

MDI Radiographic Transparencies

- Radiographic Transparency for MDI Implants with Collar
- Radiographic Transparency for MDI Implants without Collar
- Radiographic Transparency for 2.9mm MDI Implants

3M ESPE provides MDI radiographic transparencies at no charge. Ask your 3M ESPE implant representative for details.

MDI Implant Selection Guide

<table>
<thead>
<tr>
<th>Implant Type</th>
<th>Bone Density*</th>
<th>Soft-Tissue Depth</th>
<th>Buccolingual Width</th>
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<tbody>
<tr>
<td></td>
<td>D1</td>
<td>D2</td>
<td>D3</td>
</tr>
<tr>
<td>Ø1.8mm with Collar</td>
<td>✓</td>
<td>✓</td>
<td>NR</td>
</tr>
<tr>
<td>Ø1.8mm without Collar</td>
<td>✓</td>
<td>✓</td>
<td>NR</td>
</tr>
<tr>
<td>Ø2.1mm with Collar</td>
<td>✓</td>
<td>✓</td>
<td>NR</td>
</tr>
<tr>
<td>Ø2.1mm without Collar</td>
<td>✓</td>
<td>✓</td>
<td>NR</td>
</tr>
<tr>
<td>Ø2.4mm with Collar</td>
<td>✓</td>
<td>✓</td>
<td>NR</td>
</tr>
<tr>
<td>Ø2.4mm without Collar</td>
<td>NR</td>
<td>✓</td>
<td>NR</td>
</tr>
<tr>
<td>Ø2.9mm with Collar</td>
<td>NR</td>
<td>✓</td>
<td>NR</td>
</tr>
</tbody>
</table>

* D1 = Very Dense Bone
* D4 = Very Soft Bone
* NR = Not Recommended
MDI Mini Dental Implants

2.4mm Diameter

**O-Ball Implant**

<table>
<thead>
<tr>
<th>Ø 2.4mm</th>
<th>10mm</th>
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<td>Collared O-Ball Implants</td>
<td></td>
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<tr>
<td>MOB-10</td>
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<td>MOB-13</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>MOB-15</td>
<td></td>
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<tr>
<td>MOB-18</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Classic O-Ball Implants</td>
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<td></td>
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<tr>
<td>S1810MOB</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>S1813MOB</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>S1815MOB</td>
<td></td>
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<tr>
<td>S1818MOB</td>
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</tbody>
</table>

**Square Head Implant**

<table>
<thead>
<tr>
<th>Ø 2.4mm</th>
<th>10mm</th>
<th>13mm</th>
<th>15mm</th>
<th>18mm</th>
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</thead>
<tbody>
<tr>
<td>Collared Square Head Implants</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>MSH-10</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>MSH-13</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>MSH-15</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSH-18</td>
<td></td>
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<td></td>
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</table>
### 2.9mm Diameter

#### O-Ball Implants

<table>
<thead>
<tr>
<th>Ø 2.9mm</th>
<th>10mm</th>
<th>13mm</th>
<th>15mm</th>
<th>18mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>MI-OB10</td>
<td>MI-OB13</td>
<td>MI-OB15</td>
<td>MI-OB18</td>
<td></td>
</tr>
</tbody>
</table>

#### Tapered Abutment Implants

<table>
<thead>
<tr>
<th>Ø 2.9mm</th>
<th>10mm</th>
<th>13mm</th>
<th>15mm</th>
<th>18mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>MI-T10</td>
<td>MI-T13</td>
<td>MI-T15</td>
<td>MI-T18</td>
<td></td>
</tr>
</tbody>
</table>

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#### MDI Radiographic Transparencies

- Radiographic Transparency for MDI Implants with Collar
- Radiographic Transparency for MDI Implants without Collar
- Radiographic Transparency for 2.9mm MDI Implants

3M ESPE provides MDI radiographic transparencies at no charge. Ask your 3M ESPE implant representative for details.

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#### MDI Implant Selection Guide

<table>
<thead>
<tr>
<th>Bone Density*</th>
<th>Soft-Tissue Depth</th>
<th>Buccolingual Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>Implant Type</td>
<td>D1</td>
<td>D2</td>
</tr>
<tr>
<td>Ø1.8mm with Collar</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Ø1.8mm without Collar</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Ø2.1mm with Collar</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Ø2.1mm without Collar</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Ø2.1mm with Collar</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Ø2.4mm with Collar</td>
<td>NR</td>
<td>✓</td>
</tr>
<tr>
<td>Ø2.4mm without Collar</td>
<td>NR</td>
<td>✓</td>
</tr>
<tr>
<td>Ø2.9mm with Collar</td>
<td>NR</td>
<td>✓</td>
</tr>
</tbody>
</table>

* D1 = Very Dense Bone
  * D4 = Very Soft Bone
  * NR = Not Recommended

---

- Ø 2.9mm Implant Diameter
- O-Ball Implants
- Tapered Abutment Implants
- MDI Implant Selection Guide
MDI Prosthetics

Metal Housings

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Height</th>
<th>Ø Diameter</th>
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<tbody>
<tr>
<td>MH-1</td>
<td>Metal Housing</td>
<td>3.6mm</td>
<td>4.75mm</td>
</tr>
<tr>
<td>MH-2</td>
<td>Micro Metal Housing</td>
<td>3.3mm</td>
<td>4.3mm</td>
</tr>
<tr>
<td>MH-3</td>
<td>O-Cap</td>
<td>3.0mm</td>
<td>4.0mm</td>
</tr>
<tr>
<td>S1014</td>
<td>1.4mm MDI Diamond Bur*</td>
<td></td>
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</tbody>
</table>

*Used for retention reduction of O-rings.

O-Rings

Replacement O-Ring – For Metal Housing

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>0550-01</td>
<td>Standard MH-1 MDI O-Ring</td>
</tr>
<tr>
<td>0550-10</td>
<td>Standard MH-1 MDI O-Ring (10 pack)</td>
</tr>
<tr>
<td>0550-25</td>
<td>Standard MH-1 MDI O-Ring (25 pack)</td>
</tr>
</tbody>
</table>

Replacement O-Ring – For Micro Metal Housing and O-Cap

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>0351-01</td>
<td>Micro MH-2 MDI O-Ring</td>
</tr>
<tr>
<td>0351-10</td>
<td>Micro MH-2 MDI O-Ring (10 pack)</td>
</tr>
<tr>
<td>0351-25</td>
<td>Micro MH-2 MDI O-Ring (25 pack)</td>
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</tbody>
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Blockout Shims

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>S1010</td>
<td>Blockout Shims (Pack of 25)</td>
</tr>
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Lab Analogs and Restorative Copings for 1.8mm, 2.1mm and 2.4mm Implants

Lab Analogs – O-Ball and Square Head

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>5118</td>
<td>MDI O-Ball Prosthetic Head Analog</td>
</tr>
<tr>
<td>LA0B</td>
<td>MDI Collared Standard O-Ball Analog</td>
</tr>
<tr>
<td>LASH</td>
<td>MDI Collared Standard Square Head Analog</td>
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</table>

Restorative Copings – O-Ball

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>2921</td>
<td>MDI 2.9mm O-Ball Impression Coping</td>
</tr>
<tr>
<td>2924</td>
<td>MDI O-Ball Immediate Temporization Cap</td>
</tr>
<tr>
<td>S4118</td>
<td>MDI Impression and Waxing Coping*</td>
</tr>
</tbody>
</table>

*Compatible with O-Ball and Square Head Implants.
Lab Analogs and Restorative Copings for MDI 2.9mm One-Piece Implants

**Lab Analog – O-Ball and Tapered Abutment**

- **MII-LA**
  - **MDI 2.9mm Hybrid Lab Analog**

**Restorative Copings – O-Ball**

- 2921: **MDI 2.9mm O-Ball Impression Coping**
- 2924: **MDI O-Ball Immediate Temporization Cap**
- **S4118**
  - **MDI Impression and Waxing Coping**

*Compatible with O-Ball and Square Head Implants.*

**Restorative Copings – Tapered Abutment**

- 2920: **MDI 2.9mm Tapered Abutment Impression Coping**
- 2923: **MDI Tapered Abutment Immediate Temporization Cap**
- 2922: **MDI Tapered Abutment Waxing Coping**

**Lab Analog Kit for MDI 2.9mm One-Piece O-Ball Head**

- **MII-LAKO**
  - **MDI 2.9mm Hybrid Lab Analog Kit O-Ball Abutment**

**Lab Analog Kit for MDI 2.9mm One-Piece Tapered Abutment**

- **MII-LAKT**
  - **MDI 2.9mm Hybrid Lab Analog Kit Taper Head**
MDI Instruments and Drivers

Site Preparation

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>1325</td>
<td>Ridge Mapping Caliper</td>
</tr>
<tr>
<td>S0150</td>
<td>1.5mm Tissue Punch</td>
</tr>
<tr>
<td>S1011</td>
<td>1.1mm MDI Surgical Drill (Sterile)</td>
</tr>
<tr>
<td>2000</td>
<td>15mm Irrigated Drill Extender</td>
</tr>
<tr>
<td>2010D</td>
<td>MDI Drill Duo Kit**</td>
</tr>
</tbody>
</table>

**For use with MDI 2.9mm Implants. 2010D includes the 1.7mm Pilot Drill and #2 Round Bur.

MDI Drivers, Wrenches, Ratchet Extension and Adapters

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S9030</td>
<td>MDI Finger Driver</td>
</tr>
<tr>
<td>S9032</td>
<td>MDI Winged Thumb Wrench</td>
</tr>
<tr>
<td>8010</td>
<td>Ratchet Wrench</td>
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<tr>
<td>8040</td>
<td>Adjustable Torque Wrench</td>
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<tr>
<td>1030</td>
<td>Titanium Locking Pliers for Implants</td>
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<tr>
<td>8016</td>
<td>16mm Ratchet Wrench Extension</td>
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<tr>
<td>S7015</td>
<td>MDI Ratchet Adapter Long</td>
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<tr>
<td>S7011</td>
<td>MDI Ratchet Adapter Medium</td>
</tr>
<tr>
<td>S7007</td>
<td>MDI Ratchet Adapter Short</td>
</tr>
</tbody>
</table>
MDI Denture Materials

Secure Hard Pick-Up and Secure Soft Reline materials are fast and easy chair-side products that can be applied in one session. These proprietary materials are perfectly mixed from the 1:1 safety cartridge for simple, time-saving and bubble-free applications. Both products are odorless, tasteless and provide color stability. They are also aesthetic and allow for high patient acceptance and comfort.

Secure Hard Pick-Up Kit

Secure Hard Pick-Up creates a smooth surface and allows new layers to be added at any time. Additional benefits are low heat development while polymerizing and the odorless, tasteless quality of the material.

<table>
<thead>
<tr>
<th>8720</th>
<th>Secure Hard Pick-Up Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Contents:</td>
</tr>
<tr>
<td></td>
<td>• 50ml safety cartridge of hard pick-up material</td>
</tr>
<tr>
<td></td>
<td>• 10ml adhesive</td>
</tr>
<tr>
<td></td>
<td>• Accessories</td>
</tr>
</tbody>
</table>

Secure Soft Reline Kit

Secure Soft Reline has high biocompatibility and reduces irritation of the mucosal membrane. It provides a stable adhesion between the silicone and the denture. Secure Soft Reline is easy to clean and has permanent elasticity.

<table>
<thead>
<tr>
<th>8120</th>
<th>Secure Soft Reline Kit</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Contents:</td>
</tr>
<tr>
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<td>• 50ml safety cartridge of soft reline material</td>
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<td>• 10ml glazing catalyst</td>
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<tr>
<td></td>
<td>• 10ml glazing base</td>
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<td></td>
<td>• 10ml adhesive</td>
</tr>
<tr>
<td></td>
<td>• Accessories</td>
</tr>
</tbody>
</table>

Secure Accessories

- 8366-10 Insertion Tips Type 1 (Pack of 10)
- 8448-10 Mixing Tips Type 8 (Pack of 10)
- 8449-12 Adhesive Brushes (Pack of 12)
Denture Replacement System

Celara® Denture System

Denture patients frequently have trouble adjusting to new dentures, emphatically stating that they preferred their old dentures. This occurs because the techniques used to create new dentures do not adequately impart the attributes of the existing ones. Combine this with the fact that the demand for denture treatment is predicted to increase dramatically through the year 2020, and it is no wonder why so many doctors shy away from denture treatment.

The MDI denture replacement technique enables doctors to predictably treat this ever-growing patient base in house. The system uses the patient’s existing denture as a reference, eliminating preliminary impressions, custom trays and wax rims. It enables doctors to predictably deliver quality dentures in three appointments, with increased patient satisfaction and minimal post insertion adjustments. The clinician utilizes the existing denture as a custom tray, as it has the border extensions and thickness that the patient is accustomed to and the occlusion helps accurately orient the tray in the mouth.

Celara® Denture System

### Celara Training System

**D4031**

- Includes:
  - 3X Single Arches of Materials
  - 3X Laboratory Bags
  - 1 Plastic Measuring Cup
  - Training Poster
  - Comprehensive Training Manual

### Celara Single Arch Refill Kit

**D4024**

- Includes:
  - 3 Disposable Containers
  - 3 Premium Quick Set Stone Pouches
  - 3 Premium Alginate Pouches
  - 3 Lab Case Resealable Bags
  - 3 Rapid Repair Thermoplastic Tabs
  - 1 Water Scoop for Stone (43ml)

### Celara Triple Arch Refill Kit

**D4030**

- Includes:
  - 3X Single Arches of Materials
  - 3X Laboratory Bags
  - 1 Plastic Measuring Cup
  - Thermoplastic Tabs

### Celara Premium Hybrid Wax

**D1600**

- Includes:
  - 24 Rods of Wax
Patient Materials

MDI Patient Demonstration Models

<table>
<thead>
<tr>
<th>SMDI-001</th>
<th>MDI Model Clear Acrylic Base</th>
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<tbody>
<tr>
<td>SMDI-003</td>
<td>MDI Model Maxilla Base</td>
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<tr>
<td>SMDI-004</td>
<td>MDI Model Pink Acrylic Base</td>
</tr>
<tr>
<td>SMDI-005</td>
<td>MDI Hybrid Model</td>
</tr>
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</table>

ACCESS Toothbrush

<table>
<thead>
<tr>
<th>6008-12</th>
<th>ACCESS Toothbrush Bristle Density #1 (Pack of 12)</th>
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<tbody>
<tr>
<td>6009-12</td>
<td>ACCESS Toothbrush Bristle Density #2 (Pack of 12)</td>
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</table>

MDI Practice Building Kit

The MDI Practice Building Kit includes everything you need to market the MDI treatment to new and existing patients.

<table>
<thead>
<tr>
<th>SMDI-004</th>
<th>MDI Model Pink Acrylic Base</th>
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<tbody>
<tr>
<td>V2342</td>
<td>PCC (Dr. Gordon Christensen) DVD</td>
</tr>
<tr>
<td>65001</td>
<td>MDI Patient Testimonial DVD</td>
</tr>
<tr>
<td>65002</td>
<td>100 MDI Patient Education Brochures</td>
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<tr>
<td>65003</td>
<td>MDI Case Acceptance Flip Chart</td>
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<tr>
<td>65004</td>
<td>MDI Waiting Room Placard</td>
</tr>
<tr>
<td>65006</td>
<td>MDI Practice Building Kit (includes all items listed above)</td>
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</tbody>
</table>
MDI Prosthetic Flow Chart

1.8mm, 2.1mm and 2.4mm Implants

Collared O-Ball Implants
Corresponds with Lab Analog LAOB

Classic O-Ball Implants
Corresponds with Lab Analog S118

Collared Square Head Implants
Corresponds with Lab Analog LASH

Collared O-Ball Analog

Classic O-Ball Analog

Collared Square Head Analog

Metal Housings
- Standard: MH-1
- Micro: MH-2
- O-Cap: MH-3

Blockout Shim
- S1010

O-Ball Restorative Copings
- 2921: O-Ball Impression Coping
- 2924: O-Ball Immediate Temporization Cap

O-Ball/Square Head Waxing Coping
- S4118

O-Rings
- 0550-10
- 0351-10
2.9mm Implants

O-Ball Implants

Tapered Abutment Implants

2.9mm diameter
10mm — MH-0810
13mm — MH-0813
15mm — MH-0815
18mm — MH-0818

10mm — MH-T10
13mm — MH-T13
15mm — MH-T15
18mm — MH-T18

Blockout Shim
S1010

Metal Housings
Standard
MH-1

Micro
MH-2

O-Cap
MH-3

O-Rings
0550-01
0351-01

O-Ball

Tapered Abutment

2.9mm Hybrid Lab Analog
MII-LA

Tapered Abutment Restorative Copings

2920
Tapered Abutment Impression Coping

2923
Tapered Abutment Immediate Temporization Cap

2922
Tapered Abutment Waxing Coping

2.9mm Hybrid Lab Analog Kits

O-Ball Restorative Copings

2921
O-Ball Impression Coping

2924
O-Ball Immediate Temporization Cap

S4118
O-Ball Waxing Coping

MII-LAKO
2.9mm Hybrid Lab Analog Kit (O-Ball)

MII-LAKT
2.9mm Hybrid Lab Analog Kit (Tapered Abutment)
Preoperative Planning

After patient selection and evaluation protocols have been completed, the number of MDI implants required (minimum of four) is determined and thoroughly discussed with the patient. The patient’s lower denture is then fabricated or modified, followed by identification of appropriate implant sites. After site selection, the MDI implants should be placed at least 5mm apart. For mandibular placement, the implants should be placed beginning at least 7mm anterior to the mental foramen.

1 Site Preparation

- Entry points for each MDI implant are marked on the patient’s tissue via bleeding points or a marker.
- The 1.1mm Pilot Drill is delicately placed over the entry point and lightly pumped up and down until the cortical plate is penetrated. No incision is necessary.
- The average depth is one-third to one-half the threaded length of the implant. Sterile irrigation is utilized throughout the drilling procedure.
- In extremely dense bone an extended penetration may be required.
- The pilot hole depth should never equal the length of the implant, as the tip of the drill is wider than the tip of the implant.
- Recommended motor rpm = 1200-1500

2 Use of Finger Driver

- Open the MDI implant vial.**
- Carry implant to the site using the vial cap, or grasp the body of the implant firmly with titanium locking pliers, and attach the Finger Driver to the head of the implant. (It has a friction grip O-ring and can be used as a carrier to the patient’s mouth, as well as a beginning surgical driver.)
- After inserting the implant into the pilot opening through the attached gingiva, rotate clockwise while exerting downward pressure.
- This procedure initiates the self-tapping process and is used until noticeable bony resistance is encountered.

**All MDI implants are delivered sterile.
3 Use of the Winged Thumb Wrench

Use the Winged Thumb Wrench to thread the implant into place until the wrench becomes difficult to turn.

**IMPORTANT:** If no significant resistance is met during this mid-stage of insertion, the prognosis for the implant reaching its full potential is doubtful. The patient's bone at this site possibly lacks the required density for predictable success.

4 Use of the Ratchet or Adjustable Torque Wrench with Ratchet Adapter

- The Ratchet Wrench or Adjustable Torque Wrench will then finalize the insertion process.
- Grasp the wrench (with the directional arrow facing clockwise) and engage the square neck of the Ratchet Adapter into the square opening of the wrench.
- This final stage of MDI implant placement requires slow, carefully controlled ratchet turns.
- The ideal implant position allows the abutment head to protrude from the gingival soft tissue at its full length but with no neck or thread portions visible.
- Advance the implant with the Torque Wrench to a minimum of 35 Ncm to allow immediate load.

5 Final Implant Positioning

A minimum of 4 MDI implants are required to stabilize a full lower denture.

**IMPORTANT:** The removable O-ring attachments inside an over-denture will not loosen an integrated MDI Implant. A loose implant is one that did not fully integrate into the bone. The primary reason for non-integration is over-instrumentation of the bone. The MDI implant utilizes a fully self-tapping protocol. It demands that the implant bite into the bone and advance itself from the initial point to completion. The procedure requires torquing forces that progress from the Finger Driver to the Winged Thumb Wrench to Ratchet or Torque Wrench with the Ratchet Adapter.
MDI Implant Surgical Protocols

Maxillary Denture Stabilization

1 Site Preparation

Entry points are made with the Pilot Drill (Item S1011) by perforating the cortical plate.

2.4mm diameter MDI implants require use of the 1.1mm Pilot Drill (Item S1011).

2.9mm diameter MDI implants require use of the Disposable Tissue Punch (Item S0150)* followed by the Drill Duo Kit (Item 2010D).

2 Use of the Finger Driver

Insertion of the MDI implant begins with the vial cap and continues with the Finger Driver until more torque is necessary.

*S1011 S0150* The 1.5mm Disposable Tissue Punch can be used to remove mobile mucosa.
3. Use of the Winged Thumb Wrench

Insertion continues with the Winged Thumb Wrench.

4. Use of the Ratchet or Adjustable Torque Wrench with the Ratchet Adapter

To verify initial stability is sufficient for each implant, connect the Ratchet Adapter to the Adjustable Torque Wrench and confirm at least 35 Ncm of resistance.

**IMPORTANT:** If no significant resistance is met during this mid-stage of insertion, the prognosis for the implant reaching its full potential is doubtful. The patient’s bone at this site possibly lacks the required density for predictable success.

5. Final Implant Positioning

A minimum of 6 MDI implants are required to stabilize a full maxillary denture.

**IMPORTANT:** The removable O-ring attachments inside an over-denture will not loosen an integrated MDI implant. A loose implant is one that did not fully integrate into the bone. The primary reason for non-integration is over-instrumentation of the bone. The MDI implant utilizes a fully self-tapping protocol. It demands that the implant bite into the bone and advance itself from the initial point to completion. The procedure requires torquing forces that progress from the Finger Driver to the Winged Thumb Wrench to Ratchet or Torque Wrench with the Ratchet Adapter.

6. Restorative Protocol

For maxillary denture stabilization cases using MDI, a soft reline without metal housing attachments is recommended for the first 4-6 months (see page 24 for Soft Reline Protocol). After osseointegration is complete, the denture can be retrofitted with metal housings (see page 22 for Hard Pick-Up Protocol).
MDI Implant Surgical Protocols

2.9mm MDI Implant Protocol

2.9mm MDI implants are not recommended for placement in extremely dense (D1) or extremely soft (D4) bone.

1 Site Preparation

1a Probe soft tissue at implant site and record tissue thickness.

1b Remove soft tissue at implant site using the 1.5mm tissue punch.

1c Create pilot hole using 1200-1500 rpm and sterile irrigation.

Soft Bone Drilling Protocol (D3 Bone)

Entry divots are made with the #2 Round Bur. Then the 1.7mm Pilot Drill is used to perforate the cortical plate.

Dense Bone Drilling Protocol (D2 Bone)

Entry divots are made with the #2 Round Bur. Pilot holes then made with the 1.7mm Pilot Drill should have a depth equal to approximately 1/2 the length of the planned implant plus the measurement of soft tissue thickness. An endodontic stopper is helpful in marking appropriate depth.

Example: For a 13mm implant in a site with 2.5mm soft tissue thickness, a pilot hole of approx. 9mm is ideal (8.5mm + 2.5mm = 9mm).
Implant Placement

2 Use of the Finger Driver
Insertion of the MDI implant begins with the vial cap or with the Finger Driver and continues with the Finger Driver until more torque is necessary.

3 Use of the Winged Thumb Wrench
Insertion continues with the Winged Thumb Wrench.

4 Use of the Ratchet or Adjustable Torque Wrench with the Ratchet Adapter
Insertion continues with the Ratchet Adapter connected to the Ratchet or Adjustable Torque Wrench.
To verify initial stability is sufficient for each implant, connect the Ratchet Adapter to the Adjustable Torque Wrench and confirm at least 35 Ncm of resistance.

5 Final Implant Positioning
Final placement is achieved once all blasted surfaces are engaged in bone, and the crown margin is positioned at the appropriate level subgingivally.

NOTE: For instructions on impressioning and temporization, see the following page.
MDI Impression and Temporization Protocol

2.9mm Implants

1. Taking An Impression
   A Pick-Up impression is made using the retentive impression coping.

2. Forming the Temporary Restoration
   Once adjacent teeth are lubricated with petroleum jelly, Tapered Abutment (2923) or O-Ball (2924) Immediate Temporization Caps are seated on the implants. 3M™ ESPE™ Protemp™ Plus Temporization Material is then extruded in the temporary crown impression or stint and placed in the patient's mouth for 1 minute and 40 seconds to 2 minutes and 50 seconds from the onset of mixing.

3. Finishing the Temporary Restoration
   Remove the temporary restoration and cap (now bonded together) from the patient's mouth. Let the material continue to cure in the matrix for a total of 5 minutes from the onset of mixing. Trim excess flash and remove oxygen inhibition layer with alcohol. Press temporary restoration in place directly on implant abutments. 3M™ ESPE™ RelyX™ Temporary Cement (Eugenol or Non-Eugenol) is optional due to the retentive nature of the Temporization Cap. If you need to add to the temporization material, you can use the shade matching 3M™ ESPE™ Filtek™ Supreme Plus Flowable Restorative Material.

*For more information on ordering 3M ESPE products visit www.3MESPE.com
MDI Direct Restorative Protocols

Hard Pick-Up Protocol

1. Relieve denture to accommodate implants and metal housings, creating individual holes or a trough.

2. Trim Blockout Shims to appropriate length and place one shim on each implant to block out undercuts.

3. Place Metal Housings on each implant and check for passive fit over shims. Place denture in patient’s mouth and check for passive fit over implants and housings.

4. Apply a thin layer of adhesive to the tissue-contact surface of the denture.

NOTE: Hard Pick-Up Protocol continues on next page.
MDI Direct Restorative Protocols

Hard Pick-Up Protocol *(Continued)*

5
Extrude Secure Hard Pick-Up material directly onto Metal Housings and into the troughed denture.

6
Seat denture in patient’s mouth and have patient apply normal bite pressure in centric occlusion, and allow 7-9 minutes for Secure Hard Pick-Up material to set.

7
Remove denture and all blockout shims, trim and polish. Seat the final denture and inform the patient to keep the denture in place for the first 48 hours after placement to prevent tissue overgrowth.

Removable O-Ring (0550-01) housed inside metal housing.

Denture

Secure Hard Pick-Up Kit

<table>
<thead>
<tr>
<th>8720</th>
<th>Secure Hard Pick-Up Kit</th>
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<tbody>
<tr>
<td></td>
<td>Contents:</td>
</tr>
<tr>
<td></td>
<td>• 50ml safety cartridge of hard pick-up material</td>
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<tr>
<td></td>
<td>• 10ml adhesive</td>
</tr>
<tr>
<td></td>
<td>• Accessories</td>
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</tbody>
</table>

8720
Soft Reline Protocol

Recommended for maxillary cases. May be necessary when implants are placed in softer bone in the mandible.

- Grind down denture base at least 1mm and relieve denture to accommodate the prosthetic heads of each implant.
- Roughen the tissue-contact surface of the denture with an acrylic bur and degrease the surface with isopropyl alcohol.
- Apply a thin coat of adhesive.
- Extrude SECURE Soft Reline material onto the tissue-contact surface of the denture.
- Place the denture in the patient’s mouth and ask patient to apply normal bite pressure in centric occlusion.
- Allow seven minutes for SECURE Soft Reline material to set.
- Remove denture and trim excess material with fine scissors or a surgical blade.
- Mix equal drops of glazing base and catalyst.
- Use a brush to apply the mixture to the corresponding margins.
- DO NOT remove the palate of a maxillary denture during this stage.
- Ask the patient to keep the denture in place for the first 48 hours after placement to prevent tissue overgrowth.
- Four to six months after soft load, the soft liner can be replaced with a hard pick-up of the MDI Metal Housings (follow instructions for “SECURE Hard Pick-Up Protocol”) to increase the level of retention.

Secure Soft Reline Kit

Contents:
- 50ml safety cartridge of soft reline material
- 10ml glazing catalyst
- 10ml glazing base
- 10ml adhesive
- Accessories
MDI Indirect Restorative Protocol

1. Seating the Copings
Snap the O-Ball Impression Copings directly onto each O-Ball MDI Implant.

   NOTE: Soft tissue may prevent full engagement of the coping on implants seated too deeply into soft tissue. In such a case, it is recommended to take an impression of the O-Ball head of the implant without impression copings applied.

2. Seating the Impression
Standard crown and bridge impression techniques are used to pick up the impression copings, recording each implant’s position easily and accurately. 3M™ ESPE™ Impregum™ Soft Polyether Impression Material* is recommended for implant impressions.

3. Removal of the Impression
Once the impression has fully set, carefully remove the tray from the patient’s mouth and confirm all impression copings have been captured accurately in the impression.

4. Insertion of the Lab Analogs
This step can be observed in the clinic or at the dental laboratory.

   Confirm the appropriate MDI Lab Analog will be inserted by reviewing the type of MDI O-Ball Implant used in the case. Use the Collared O-Ball Analog (LAOB) any time Collared O-Ball MDI Implants are used. When Classic O-Ball MDI Implants are used, coordinate the case using Classic O-Ball Analogs (5118).

   Align the square neck of MDI Analog with the square opening at the base of the Impression Coping. Press the analog into the coping until a snap fit is observed. Insert a lab analog into each coping and prepare the impression to be used to fabricate a stone model.

5. Fabrication of the Model
Use standard stone model fabrication techniques to form the model. Once the stone has set completely, carefully remove the impression from the model.

*For more information on ordering 3M ESPE products visit www.3MESPE.com.
Implant Motors and Accessories

Implant and Oral Surgery System

Features:

- Powerful, brushless 40,000 rpm autoclavable micromotor
- Variable handpiece ratio selection: 1:5 and 1:2 increaser, 1:1 and 20:1 reduction E-type handpieces
- Adjustable torque up to 60 Ncm enables a single, high-efficiency 20:1 reduction handpiece (AHP-85MBC) to be used for the complete implant procedure
- Advanced calibration technology for accurate speed and torque performance
- Selectable auto-stop function when desired torque setting is reached
- Intuitive keypad with adjustable handpiece ratio, speed, torque and irrigation flow settings
- Contemporary design with easy-to-clean surfaces and large, bright easy-to-read display
- Fully integrated, easy-load irrigation pump
- Six programmable preset buttons for storing and labeling custom settings in memory
- Autoclavable motor holder may be free-standing or mounted to either side of the console
- Upgradable software for a longer return on investment
- Standard tubing set accepts standard irrigation bags; optional tubing set accommodates rigid irrigation bottles
- Auto-sensing global voltage compatibility
- FDA, UL and CE compliant
- Made in the U.S.A.
Implant Motors and Accessories

Implant and Endodontic System

**Features:**
- Switch between Endo Mode and Implant Mode at the touch of a button
- Powerful brushless 40,000 rpm autoclavable micromotor
- Implant mode ratio selection: 1:5, 1:2, 1:1, 20:1
- Endo Mode: 8:1
- Calibration technology for accurate speed and torque performance
- Adjustable Torque:
  - Implant Mode will reach torque up to 50 Ncm, which enables a single, high-efficiency 20:1 Reduction Contra Angle Handpiece (AHP-85P-I) to be used for the complete implant procedure
  - Endo Mode will reach torque up to 1000 g-cm using 8:1 reduction handpiece
- Selectable Auto-Stop function in Implant Mode and Auto-Stop-Reverse in Endo Mode when desired torque setting is reached
- Contemporary design with easily cleaned surfaces
- Fully integrated, easy-load irrigation pump
- Large, bright, easy-to-read display
- Intuitive user interface that features adjustable handpiece ratio, speed, torque and irrigation flow settings
- Five programmable preset buttons for storing and labeling custom settings in memory
- Autoclavable motor holder may be freestanding or mounted to either side of the console
- Upgradable software for a longer return on investment
- Includes irrigation tubing set
- Optional AE-70V Multi-Function Foot Control with Pump On/Off, Micromotor Direction, Preset Selection and Torque Cycle buttons
- Includes autoclavable tubing set for standard irrigation bags; optional tubing set accommodations rigid irrigation bottles
- Auto-sensing global voltage compatibility
- FDA, UL and CE compliant
- Manufactured in the U.S.A.

**Handpieces**

<table>
<thead>
<tr>
<th>Handpiece</th>
<th>Description</th>
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<tbody>
<tr>
<td>AHP-85P-I</td>
<td>20:1 Reduction Contra Angle Handpiece (200-1500 rpm)</td>
</tr>
<tr>
<td>AHP-85MB-CX</td>
<td>High Torque Contra Angle Handpiece (200-1500 rpm)</td>
</tr>
<tr>
<td>AHP-09</td>
<td>Aseptispray</td>
</tr>
</tbody>
</table>

Implant Contra Angle handpiece which accepts D-latch implant burs. Ideal for osteotomies, tapping and threading.
Surgical Materials

OSSEO+ Demineralized Cortical Bone

For patients lacking proper bone structure, 3M ESPE offers demineralized cortical bone. OSSEO+ is produced for use in the reconstruction of maxillary or mandibular defects, or to assist in regeneration of bone tissue to maximize the potential for implant success.

OSSEO+ is derived from qualified donors, free from risk factors and disease according to U.S. FDA guidelines. A multi-stage processing system is used to ensure the product is pure and free from contaminates. No foreign substances are added to the material, resulting in the final product being classified (by the U.S. FDA) as a tissue.

Processing Treatment

The processing treatment begins by cleaning cortical bone grafts of adherent tissue. The cleaned grafts are exposed to a series of solutions listed below and ground to the proper size, .125mm to .850mm particles. The particles are then exposed to a washing process consisting of a hydrochloric acid bath. The hydrochloric acid bath reduces the levels of calcium in the tissue to less than 8% (typically less than 1%), which is recommended for a high degree of success. Demineralized cortical bone is then packaged, freeze-dried and exposed to gamma irradiation. Irradiation is performed with the graft in the final package to ensure the highest safety standards are achieved.

The preparation of bone grafts involves a soaking and rinsing in the following solutions to clean and aid in inhibiting bacterial growth:

- Antibiotics
- Hydrogen Peroxide
- Alcohol
- Sterile water
- Allowash®

The patented Allowash Treatment is extremely effective against viruses and bacteria. The technique consists of three different chemicals used to effectively remove cellular elements from musculoskeletal tissue while maintaining structural integrity.

Tests and Processing Information

The following tests are performed by Community Tissue Services® on OSSEO+ Demineralized Cortical Bone:

<table>
<thead>
<tr>
<th>Serological Tests</th>
<th>Performed by Community Tissue Services</th>
<th>Required by AATB</th>
<th>Required by FDA</th>
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</thead>
<tbody>
<tr>
<td>Hepatitis B Core Ab Total</td>
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<td>•</td>
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<tr>
<td>Hepatitis B Surface Ag</td>
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<tr>
<td>Hepatitis C Virus Ab</td>
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</tr>
<tr>
<td>HIV 1/2 Ab</td>
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<tr>
<td>HTLV-I/II Ab</td>
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<tr>
<td>HCV RNA NAT</td>
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</tbody>
</table>

OSSEO+ Demineralized Cortical Bone

- OSSP05: OSSEO+ Demineralized Cortical Bone 0.5ml
- OSSP10: OSSEO+ Demineralized Cortical Bone 1.0ml
- OSSP20: OSSEO+ Demineralized Cortical Bone 2.0ml
- OSSP50: OSSEO+ Demineralized Cortical Bone 5.0ml
Surgical Materials

BioSorb™
Resorbable Collagen Membrane

(Type 1 Bovine Achilles Tendon)
The BioSorb resorbable collagen membranes handle similarly to soft tissue and resorb fully in 26-38 weeks.

Tensile Strength
BioSorb resorbable collagen membranes have enhanced tensile strength due to a matrix that consists of long, interwoven collagen fibers.

Suture Pullout Strength
BioSorb resorbable collagen membranes are designed with sufficient suture pullout strength, a desired property of all membrane barriers. Its long, oriented, cross-linked collagen fibers form an organic meshwork favorable for suturing.

BioSorb™ Resorbable Collagen Membranes
Membranes maintain structural integrity for 26-38 weeks.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>BIO1520-6</td>
<td>BioSorb 15x20mm Resorbable Collagen Membrane for Dental Surgery</td>
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<tr>
<td>BIO2030-6</td>
<td>BioSorb 20x30mm Resorbable Collagen Membrane for Dental Surgery</td>
</tr>
<tr>
<td>BIO3040-6</td>
<td>BioSorb 30x40mm Resorbable Collagen Membrane for Dental Surgery</td>
</tr>
</tbody>
</table>
Orders placed after 3:00 PM Central Standard Time will be processed the following business day.