HUGE
the leading dental material manufacturer in China ...

Founded in 1985, Huge Dental Material Co., Ltd is the first Sino-Japanese joint venture in Shanghai, China. In 2014 Huge Dental was formed into Shandong Huge Dental Material Corporation (SHD for short) which is a professional supplier of high quality dental materials. With headquarters located in Shanghai, SHD has production base located in Hi-tech Development Zone, Rizhao City, Shandong Province. The production base has more than 300 employees and covers an area of 33,000 m² including 10,000 m² of manufacturing and researching plant. In China, SHD is the largest synthetic polymer teeth manufacturer with the #1 market share and annual production capacity of over 60 million teeth. Owning highest level of R&D department and world-class technology, SHD can meet different needs of synthetic polymer teeth lines from all over the world and has been exporting its products to over 100 countries and regions. SHD is the first company who has achieved mass production for high quality silicone impression materials in China, which have won recognition, trust and high approval from the clients. Silicone impression materials have been exported to more than 20 countries, such as United State and European countries, etc. SHD has launched into market the high quality Zirkking all-ceramics disc blocks, which have been exported to more than 10 countries and regions. SHD has newly developed the world-leading dental CAD/CAM PMMA disc blocks of multi-layers and varied colors, which will be the driving force for the development of digital dental technology. SHD implements the most stringent quality standards in the industry. The company has passed the ISO9001, ISO13485, JIS(Japan) and CE(EU). SHD sincerely hopes that, with joined hands, we can grow up together with all you distinguished global dental product agents and distributors.
1985
Established as the first Sino-Japanese joint venture in Shanghai;

1986
HUGE products started to be sold in Japan and East Asian countries;

2004
HUGE was restructured, more funds were injected;

2005-2006
• CAD/CAM tooth molding center was established;
• High molecular weight Double Cross Link material was applied;
• New 4-layer and 5-layer effect synthetic polymer teeth were produced;
• Started to market 7 teeth ranges with different mould design which can be applied worldwide;

2007-2008
• HUGE RIZHAO manufacturing center was set up:
  - 8,000 m² factory was built on a 30,000 m² plant;
  - annual capacity reached 25 million tooth;
• Started the exportation to European countries;
• Composite teeth range was developed;
• Long-centric occlusal pattern/ Seniors teeth range was developed;

2009-2010
• Became the largest synthetic polymer teeth manufacturer in China;
• Became the only teeth manufacturer who possesses CE, FDA and JIS certifications.
• Exported to 30 countries;
• Supply of PMMA Blocks and PERFIT A Silicone impression material started;

2011-2012
• Won National Certification of New Hi-Tech Enterprise;
• Exported to 60 countries;
• KAUING teeth range sold #1 in China;
• PERFIT A Silicone sold #1 in China;

2013-2014
• American HUGE was founded, and Huge exported to 80 countries;
• Acquired Enjoy Laboratory, which is the most advanced Glass Ionomer Cement material research and development center in China;
• Launched Zirconia Block, Light-Curing Individual Tray and Ceramic powder;
• HUGE has more than 300 employees, 40,000 m² industry zone with 10,000 m² workshops and 10,000 m² staff dormitory, annual capacity of 60 million pieces of teeth.

2015-2016
• HUGE listed on NEEQ;
• Supply of Glass Ionomer Cement started;
• Perfct A Silicone continued #1 sales in China.
Every single tooth is examined and full denture set up to ensure shade consistence.
- Raw material imported from Europe and Japan in high quality standard.
- Strictly compliant with ISO, CE, FDA regulations, registered in 15 countries.

- Staff grew from 50 to 350 in 10 years.
- 3+ integrate training per year, with countless training when needed; Half-year and yearly meeting and team building.
- Reasonable salary + high incentive oriented.
- Flexible and direct channels to grow in different occupations.

- Distributors increased from 20 to 350 in 10 years, 10% of them have been working with HUGE for 10 years.
- Strict EXCLUSIVE protection.
- Special support to our partners, to help them go through the difficult time, eg. Russia, Syria.
- Inter-partner sales training, customers visit and seminar to support them to get success.
RESEARCH & DEVELOPMENT

Application & Pre-production Center of R&D (Rizhao)
Located in Rizhao City Shandong Province, which is engaged in the development and application of high-tech dental materials and technology.

Material Development Center (Peking)
Led by Prof. Hengchang Xu, leader of China dental material science, doctor tutor and former deputy dean in Peking University School of Stomatology, responsible for the material development with professional R&D team.

Teeth Mold Design Center (Shanghai)
Led by general engineer Mr. Yifeng Wu who has more than 30 years professional experience and ever studied in Germany, is in charge of synthetic polymer teeth molding, designing and manufacturing of CNC die.

Dental Digital Development and Application Center (USA)
Located in the United State, owns the mature and advanced 3D digital technology, focusing on the research of the application of 3D digital technology on the dental restorations.

CERTIFICATIONS

CE Certificate
ISO Certificate
FDA Certificate
CFDA Certificate
RCR Certificate
### What is NEW / NEW products

<table>
<thead>
<tr>
<th>Product</th>
<th>Application</th>
<th>Advantage</th>
<th>Shade</th>
<th>Launch time</th>
</tr>
</thead>
</table>
| Glass Ionomer Cement•HS Posterior Restorative | Be used in Class V, I & II restorations, as base or as core build-up material | 1) High strength  
2) Fast setting  
3) Easy mixing | Light+, Light, Medium, Dark, Translucent, Opaque, White | July-December, 2017          |
| Dual Cure Resin Cement               | It is the ideal choice for all of indirect bonding needs. | Greater versatility                               | Light+, Light, Medium, Dark, Translucent, Opaque, White | July-December, 2017   |
| PackFil Resin Modified Glass Ionomer Cement | Used for both anterior and posterior restorations. | Better adaptation, lowers polymerization shrinkage. | Light+, Light, Medium, Dark, Translucent, Opaque, White | July-December, 2017   |
| Universal Composite Restorative      | Be used for both anterior and posterior restorations. | Strength and esthetics.                          | Vita 16 shades               | July-December, 2017   |
| Flowable Composite Restorative       | Be used for porcelain and/or ceramic restoration internal bonding surface conditioning. | Reliable chemical bonding.                       | Vita shades of A1, A2, A3, A3.5 and B2    | July-December, 2017   |
| Light Cure Dental Adhesive           | Be used for all bonding procedures of either direct or indirect. | High bonding strength and low film thickness.    | Light+, Light, Medium, Dark, Translucent, Opaque, White | July-December, 2017   |
| Phosphoric Acid Etching Gel          | Be used for tooth surface etching and conditioning | Easy reorganization                              | Light+, Light, Medium, Dark, Translucent, Opaque, White | July-December, 2017   |
| Ceramic Coupling Agent               | Be used for porcelain and/or ceramic restoration internal bonding surface conditioning. | Reliable chemical bonding.                       | Light+, Light, Medium, Dark, Translucent, Opaque, White | July-December, 2017   |
PERFIT Elastomeric Impression material

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HUGE Glass Ionomer Cement

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Light Curing Tray & Unit

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HUGE Cleaning Products

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Chemical name is vinyl polysiloxane, called VPS for short.

It is an additional silicone;

Elastomeric impression is a negative imprint of hard (teeth) and soft tissues in the mouth from which a positive reproduction (or cast) can be formed. It has been used widely in the area of medicine;

Elastomeric impression has high precision and stability, good elasticity, toughness and strength. And it is one of the most ideal impression materials now.
How to choose impression materials?

Impression material is one of the most popular materials in the area of medicine. And the choice of impression material will directly affect the final outcome of the clinical work. 3 kinds of impression materials are commonly used in dentistry now.

### Impression from Alginate
- **Contraction (Lin %) after 24h:** 0.5
- **Detail reproduction (μm):** 50
- **Elastic recovery (%):** 96
- **Need to be poured immediately:** 30 minutes
- **Working time (min):** 1.5
- **Setting time (min):** 3-4
- **Recommended application:** Orthodontic

### Impression from Condensation silicone
- **Contraction (Lin %) after 24h:** 0.2-1.0
- **Detail reproduction (μm):** 25
- **Elastic recovery (%):** 97.2-99.6
- **Working time (min):** 2-4
- **Setting time (min):** 5-8
- **Recommended application:** Crowns & Bridges

### Impression from Additional silicone
- **Contraction (Lin %) after 24h:** 0.01-0.2
- **Detail reproduction (μm):** 25
- **Elastic recovery (%):** 99.5-99.9
- **Working time (min):** 2-2.25
- **Setting time (min):** 3-3.5
- **Recommended application:** Crowns & Bridges, Inlays & Onlays, Implantology

<table>
<thead>
<tr>
<th>Alginate</th>
<th>Condensation silicone</th>
<th>Additional silicone (PERFIT Elastomeric Impression Material)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Recommended application</strong></td>
<td>Impression of Orthodontic</td>
<td>Impression of Crowns &amp; Bridges</td>
</tr>
<tr>
<td><strong>Precision</strong></td>
<td>•Contraction (Lin %) after 24h: 0.5 •Detail reproduction (μm): 50 •Elastic recovery (%): 96</td>
<td>•Contraction (Lin %) after 24h: 0.2-1.0 •Detail reproduction (μm): 25 •Elastic recovery (%): 97.2-99.6</td>
</tr>
<tr>
<td><strong>Shelf life of prepared impression</strong></td>
<td>Need to be poured immediately</td>
<td>30 minutes</td>
</tr>
<tr>
<td><strong>Working time &amp; setting time</strong></td>
<td>•Working time (min): 1.5 •Setting time (min): 3-4</td>
<td>•Working time (min): 2-4 •Setting time (min): 5-8</td>
</tr>
<tr>
<td><strong>Product Types</strong></td>
<td>•Alginate</td>
<td>•Putty</td>
</tr>
</tbody>
</table>

Remark: Data is from Phillip’s Science of dental materials and HUGE laboratory.
PERFIT Elastomeric Impression Material

**Putty (Hand-mix)**

- **Indication**
  - Crown, bridge, inlays and onlays impression.
  - Recommended to take two-stage or single-stage impression technique together with PERFIT Light Body for higher precision.

- **Technical Data**
  - Mixing Ratio (Base:Catalyst): 1:1
  - Mixing Time: 0:30
  - Total Working Time (Temperature: 23°C, Humidity: 50%): 2:00
  - Setting Time in Mouth: 3:00
  - Tensile strength: >1.0
  - Tear strength: >2.0
  - Elastic Recovery: >99.5%
  - Dimensional Stability: <0.7%
  - Hardness Shore A: 63

- **Advantages**
  - Excellent precision
  - High dimensional stability
  - High tear strength and tensile strength
  - Easy mixing.

- **Delivery Form**
  - Packaging: 400g Base + 400g Catalyst + 2 Measuring spoons
  - Color of Base: Purple
  - Color of Catalyst: White

**Putty (Auto-mix)**

- **Indication**
  - Crown, bridge, inlays and onlays impression.
  - Implantology impression

- **Technical Data**
  - Mixing ratio (Base:Catalyst): 5:1
  - Mixing time: -
  - Total working time (Temperature: 23°C, Humidity: 50%): 1:30
  - Setting time in mouth: 3:30
  - Tensile strength: >2.0
  - Tear strength: >4.0
  - Elastic Recovery: >99.0%
  - Dimensional Stability: <0.7%
  - Hardness Shore A: 60

- **Advantages**
  - Suitable for most auto-mix machines
  - Excellent precision
  - High dimensional stability

- **Delivery Form**
  - Packaging: 380ml/bio-cartridge, 1 bio-cartridges/box
  - Color of Base: Blue
  - Color of Catalyst: White
PERFIT Elastomeric Impression Material

Heavy Body (Dispenser-mix / Fast Set)

- **Indication**
  - Crown, bridge, inlays and onlays impression.
  - Implantology impression.

- **Technical Data**
  - Mixing ratio (Base:Catalyst): 1:1
  - Mixing time: -
  - Total working time (Temperature: 23°C, Humidity: 50%): 1:30
  - Setting time in mouth: 3:00
  - Tensile strength: >2.0
  - Tear strength: >3.0
  - Elastic Recovery: >99.5%
  - Dimensional Stability: <0.5%
  - Hardness Shore A: 65

- **Advantages**
  - Excellent precision
  - High dimensional stability
  - High tear strength and tensile strength
  - Fast setting

- **Delivery Form**
  - Packaging: 50ml/bio-cartridge, 2 bio-cartridges/box
  - Color of Base: Blue
  - Color of Catalyst: White

Heavy Body (Auto-mix)

- **Indication**
  - Crown, bridge, inlays and onlays impression.
  - Implantology impression.

- **Technical Data**
  - Mixing ratio (Base:Catalyst): 5:1
  - Mixing time: -
  - Total working time (Temperature: 23°C, Humidity: 50%): 1:30
  - Setting time in mouth: 3:30
  - Tensile strength: >2.0
  - Tear strength: >4.0
  - Elastic Recovery: >99.0%
  - Dimensional Stability: <0.7%
  - Hardness Shore A: 60

- **Advantages**
  - Suitable for most auto-mix machines
  - Excellent precision
  - High dimensional stability

- **Delivery Form**
  - Packaging: 380ml/bio-cartridge, 1 bio-cartridges/box
  - Color of Base: Green
  - Color of Catalyst: White
PERFIT Elastomeric Impression Material

Light Body (Dispenser-mix)

- **Indication**
  - Crown, bridge, inlays and onlays impression. Recommended to take two-stage or single-stage impression technique together with PERFIT A Putty for higher precision.

- **Technical Data**
  - Mixing ratio (Base:Catalyst): 1:1
  - Mixing time:
  - Total working time (Temperature: 23°C, Humidity: 50%): 2:15
  - Setting time in mouth: 3:30
  - Tensile strength: >2.0
  - Tear strength: >3.0
  - Elastic Recovery: >99.5%
  - Dimensional Stability: <0.5%
  - Hardness Shore A: 56

- **Advantages**
  - Maximum precision in detail reproduction
  - Excellent elastic recovery and thixotropy
  - High dimensional stability
  - High tear strength and tensile strength

- **Delivery Form**
  - Packaging: 50ml/bio-cartridge, 2 bio-cartridges/box
  - Color of Base: Orange
  - Color of Catalyst: White

Bite Registration (Dispenser-mix / Fast set)

- **Indication**
  - Bite registration

- **Technical Data**
  - Mixing ratio (Base:Catalyst): 1:1
  - Mixing time:
  - Total working time (Temperature: 23°C, Humidity: 50%): 0:20
  - Setting time in mouth: 0:45
  - Tensile strength: >2.0
  - Tear strength: >4.0
  - Elastic Recovery: >99.5%
  - Dimensional Stability: <0.7%
  - Hardness Shore A: 89

- **Advantages**
  - High hardness
  - High tear strength and tensile strength
  - Low bite resistance
  - Reasonable working time and short setting time

- **Delivery Form**
  - Packaging: 50ml/bio-cartridge, 2 bio-cartridges/box
  - Color of Base: Sky blue
  - Color of Catalyst: White
PERFIT Elastomeric Impression Material

Set A

- Delivery Form
  - Putty: Base 50g + Catalyst 50g + 2 Measuring spoon
  - Light Body: 50ml/bio-cartridge × 1

- Suggestion
  - Sample

Set B

- Delivery Form
  - Putty: Base 400g + Catalyst 400g + 2 Measuring spoon
  - Light Body: 50ml/bio-cartridge × 2

- Suggestion
  - It is suitable for dentists who use light body with large quantity.

Set C

- Delivery Form
  - Putty: Base 400g + Catalyst 400g + 2 Measuring spoon
  - Light Body: 50ml/bio-cartridge × 4

- Suggestion
  - It is suitable for dentists who use light body with medium quantity.

Trial Set 1

- Delivery Form
  - Putty: Base 50g + Catalyst 50g + 2 Measuring spoon
  - Light Body: 50ml/bio-cartridge × 1

- Suggestion
  - Sample
Operation Procedures

Operation Procedures for PERFIT Putty & PERFIT Light Body

1. Choose a suitable tray
   - The tray should be 3-4 cm far from the patient’s teeth.
   - A tray of stainless steel is recommended, because it’s not easy to deform.

2. Clean and dry hands
   - The material should be kept out from direct sunlight, and the recommended storage conditions are below 25 °C and the normal indoor humidity.
   - Don’t wear latex gloves during operation, and don’t touch any cosmetic product or any foreign bodies such as talcum powder, etc. Disposable polyethylene gloves are recommended.
   - The patient should rinse the mouth for many times before taking impression.

3. Take the primary impression
   - Take the base and catalyst with measuring spoons in corresponding colors. For the upper jaw, a full spoon of each material is recommended; and for the lower jaw, a flat spoon of each material is recommended. Make sure that the volume proportion of base catalyst is 1:1.
   - Use the fingertip to mix the materials till the mixture color becomes even without streak. The mixing time is recommended to be 30 seconds.
   - Knead the putty into a stick and then put it in the tray, and finally put the tray into the patient’s mouth. After 3 minutes, take the tray out to finish the first impression taking.

4. Adjust the first impression
   - Use PERFIT silicone cut to remove shoulders, gingival papilla and undercuts at the interdental space, make out the row pillway space.

5. Prepare to take the second impression
   - The portion of 1-2cm of Light Body from the bio-cartridge is recommended to discarded, because they may affect solidification due to unevenness.
   - After the cover cap is taken off for the first time, it is recommended to be discarded; and the mixer can be used as a cover after the second impression is taken.

6. Inject Light Body
   - Firstly, inject Light Body onto the tray. For injection, ensure that the mixer is properly immersed in the impression material to avoid bubble formation.
   - Then, inject Light Body into the patient’s mouth. While injecting, withdraw the gum line, and make sure that the oral tip always kept immersed into the material.

7. Take the second impression
   - Put the tray with Light Body into the patient’s mouth, slowly and accurately, making it in right position in one step. After about 3 minutes and 30 seconds till the material solidifies completely, withdraw the tray.
   - Keep the impression for 30 minutes after taking it out from the mouth (it can be stored for a long time up to 30 days), and then soak it to disinfect.

Notes: The setting time of additional polyvinyl siloxane silicone is affected greatly by temperature, so it will cure sooner if the temperature is higher.
Operation Procedures for PERFIT Heavy Body

1. Apply the bio-cartridge.
2. Remove the cover cap of bio-cartridge, and discard it, as the mixer can be used as a cover after the impression is taken.
3. Inject Heavy Body onto the tray, and ensure that the mixer is properly immersed in the impression material to avoid bubbles.
4. Take the impression. Put the tray with Heavy Body into patient’s mouth slowly and accurately, making it in right position in one step. After 3 minutes till the material solidifies completely, withdraw the tray.

Operation Procedures for PERFIT Bite Registration

1. Inject the bite registration silicone onto the tooth surface directly.
2. Bite for 45 seconds in the mouth to make the material solidify rapidly.
3. Remove the material running into the undercuts with a scalpel.
4. It is also recommended to remove the material running into the undercuts with a wheelhead.
5. Only retain the materials that into the pit and fissure on the layer of jaw surface a layer of material running into the pit and fissure on the jaw surface, so as to avoid bite-raising.
PERFIT Duplication Silicone Material

A-Silicone for Gingival Mask

- Indication
  - Gingival reproduction for implant prosthetic models.

- Technical Data
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixing ratio (Base:Catalyst)</td>
<td>1:1</td>
</tr>
<tr>
<td>Mixing time</td>
<td>-</td>
</tr>
<tr>
<td>Total working time (Temperature: 23°C, Humidity: 50%)</td>
<td>1.00</td>
</tr>
<tr>
<td>Detail reproduction</td>
<td>&lt;20µm</td>
</tr>
<tr>
<td>Elastic Recovery</td>
<td>&gt;99%</td>
</tr>
<tr>
<td>Dimensional Stability</td>
<td>&lt;0.2%</td>
</tr>
<tr>
<td>Hardness Shore A</td>
<td>36</td>
</tr>
</tbody>
</table>

- Advantages
  - Outstanding fluidity
  - High precision
  - High dimensional stability

- Delivery Form
  - Packaging: 50ml/bio-cartridge, 2 bio-cartridges/box
  - Color of Base: Pink
  - Color of Catalyst: White

Partial Model Silicone

- Indication
  - Duplication of denture moulds
  - Control matrix for designing metal implant structures
  - Matrix for use in making temporary crown/bridges
  - Matrix for the reproduction of gingival tissue (e.g. PERFIT Gingival Mask)
  - Protection of a denture from high temperatures in a flask

- Technical Data
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixing ratio (Base:Catalyst)</td>
<td>-</td>
</tr>
<tr>
<td>Mixing time</td>
<td>0.30</td>
</tr>
<tr>
<td>Total working time (Temperature: 23°C, Humidity: 50%)</td>
<td>1.00-2.00</td>
</tr>
<tr>
<td>Detail reproduction</td>
<td>75µm</td>
</tr>
<tr>
<td>Elastic Recovery</td>
<td>&gt;99%</td>
</tr>
<tr>
<td>Dimensional Stability</td>
<td>&lt;0.5%</td>
</tr>
<tr>
<td>Hardness Shore A</td>
<td>90</td>
</tr>
</tbody>
</table>

- Advantages
  - High initial smoothness
  - Final hardness (Hardness Shore A 90)
  - High details reproduction
  - Heat Resistance (140°C)

- Delivery Form
  - Packaging: 2kg Base+40g Catalyst; 5kg Base+40g Catalystx2; 10kg Base+40g Catalystx5
  - Sample Kit: 50g Base + 3g Catalyst
  - Color of Base: Gray
  - Color of Catalyst: Red
Operation Procedures for Gingival Mask

1. Master model with a mask made in PERFIT Partial Model Silicone
2. Space ground away on the master model ready for the injection of PERFIT Gingival Mask
3. Application of Separator on to the Partial Model Silicone mask
4. Positioning of the mask on the model and injection of PERFIT Gingival Mask
5. Detail of the reproduced tissue after finishing
6. Work finished on the master model

Operation Procedures for Partial Model Silicone

1
2
3
4
5
### Comparison for GIC Luting

<table>
<thead>
<tr>
<th>Product</th>
<th>Mixing Time</th>
<th>Working Time</th>
<th>Net Setting Time</th>
<th>Film Thickness (μm)</th>
<th>Particle Size (Average, μm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUGE GIC Luting</td>
<td>45&quot;</td>
<td>3'</td>
<td>2'30&quot;-3'</td>
<td>14~16</td>
<td>4.6</td>
</tr>
<tr>
<td>Product J1</td>
<td>1'</td>
<td>3'</td>
<td>2'30&quot;</td>
<td>15</td>
<td>4.5</td>
</tr>
<tr>
<td>Product U1</td>
<td>&gt;1'</td>
<td>2'30&quot;</td>
<td>5'18&quot;</td>
<td>17</td>
<td>8.8</td>
</tr>
<tr>
<td>Product G1</td>
<td>30&quot;</td>
<td>3'</td>
<td>5'-7&quot;</td>
<td>21~44</td>
<td>11.5</td>
</tr>
</tbody>
</table>

### Comparison for GIC Filling

<table>
<thead>
<tr>
<th>Product</th>
<th>Mixing Time</th>
<th>Working Time</th>
<th>Net Setting Time</th>
<th>Compression Strength (MPa)</th>
<th>Particle Size (Average, μm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUGE GIC Filling</td>
<td>&lt;1'</td>
<td>2'</td>
<td>2'-2'30&quot;</td>
<td>160~170</td>
<td>7.2</td>
</tr>
<tr>
<td>Product J2</td>
<td>40&quot;</td>
<td>2'</td>
<td>3'-4&quot;</td>
<td>160~180</td>
<td>6.3</td>
</tr>
<tr>
<td>Product U2</td>
<td>&gt;1'</td>
<td>2'30&quot;</td>
<td>3'</td>
<td>160~180</td>
<td>12.5</td>
</tr>
<tr>
<td>Product G2</td>
<td>30&quot;-40&quot;</td>
<td>2'30&quot;-3'30&quot;</td>
<td>5'-6&quot;</td>
<td>150~160</td>
<td>14.8</td>
</tr>
</tbody>
</table>
HUGE Glass Ionomer Cement

**GIC Luting**

- **Indication**
  - Ideal for basic routine luting of metal-based restorations, high strength ceramic restorations.

- **Technical Data**
  
<table>
<thead>
<tr>
<th>Powder-Liquid Ratio (g/g)</th>
<th>1.6~1.8/1.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1 spoon of powder and 2 drops of liquid)</td>
<td></td>
</tr>
<tr>
<td>Mixing Time</td>
<td>45°</td>
</tr>
<tr>
<td>Operating Time</td>
<td>3’00’</td>
</tr>
<tr>
<td>Setting time</td>
<td>2’30”~3’00”</td>
</tr>
<tr>
<td>Compressive capability</td>
<td>≥100MPa (ISO≥50MPa)</td>
</tr>
<tr>
<td>Film Thickness</td>
<td>14±2μm (ISO≤25μm)</td>
</tr>
</tbody>
</table>

- **Advantages**
  - **Excellent operating performance**
    Easy mixing and the mixed material is smooth and delicate, with excellent mobility.
  - **High bonding strength**
    Chemical bonding occurs among the material, dental tissue and restoration, and no need to use surface treatment agent or adhesive.
  - **Accurate match**
    The ideal thickness (14±2μm) guarantees the restoration perfectly match the denture.
  - **Prevention of secondary caries**
    Fluoride ions is sustainedly released from the material and it can prevent the occurrence of secondary caries.
  - **Good edge sealing**
    Low solubility of the material ensures a good edge sealing to reduce the occurrence of microleakage.
  - **X-ray Radiation Resistance**

- **Delivery Form**
  Standard package: 30g powder + 25g liquid + 1 powder measure + 1 mixing pad
  Sample kit: 10g powder + 10g liquid + 1 powder measure + 1 mixing pad

**GIC Filling**

- **Indication**
  - Restorative material for use in deciduous teeth, Class III, V and limited Class I cavities.
  - Inner, base and core build-up.
  - Atraumatic restorative treatment (ART)

- **Technical Data**
  
<table>
<thead>
<tr>
<th>Powder-Liquid Ratio (g/g)</th>
<th>1.6~2.0/1.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1 spoon of powder and 1 drop of liquid)</td>
<td></td>
</tr>
<tr>
<td>Mixing Time</td>
<td>45°~1’00’</td>
</tr>
<tr>
<td>Operating Time</td>
<td>2’00’</td>
</tr>
<tr>
<td>Setting time</td>
<td>2’00”~2’30”</td>
</tr>
<tr>
<td>Compressive capability</td>
<td>≥150MPa (ISO≥100MPa)</td>
</tr>
</tbody>
</table>

- **Advantages**
  - **Excellent operating performance**
    Easy mixing and the mixed material is smooth and delicate, with excellent mobility.
  - **Prevention of secondary caries**
    Fluoride ions is sustainedly released from the material and it can prevent the occurrence of secondary caries.
  - **Good edge sealing**
    Low solubility of the material ensures a good edge sealing to reduce the occurrence of microleakage.
  - **X-ray Radiation Resistance**

- **Delivery Form**
  Standard package: 15g powder + 12g liquid + 1 powder measure + 1 mixing pad
  Sample kit: 5g powder + 5g liquid + 1 powder measure + 1 mixing pad
  Shade: A1, A2, A3

Tip: What is film thickness?
The film thickness is a parameter that evaluates the fluidity of the cementing material during its placement in the prosthesis. It will be more conducive for the restorations to take its place if the film thickness is smaller. Big film thickness will lead to prosthesis come up during taking its place, to repolish and readjust.
Operation Procedures

**Operation procedures for Luting**

1. Prepare the tooth
2. Clean and dry
   - Gently dry the tooth with a cotton swab or an air gun, but don't make it too dry. The surface of the tooth should be moist and a little shiny. It will achieve the ideal bonding effect without dealing with smear layer of the tooth surface. Then clean and dry the restoration.
3. Take powder and liquid
   - Take 1 spoon of powder and 2 drops of liquid.
4. Mix the powder and liquid
   - Mix half portion of powder with all liquid, then incorporate the remaining powder and mix the whole. Total mixing should be completed within 45 seconds.
5. Luting and match
   - Apply the prepared material on the surface of the abutment and the cemented surface of the prosthesis. After the material is applied, put the prosthesis in and adjust in right place. The operation should be completed within 2-3 minutes (starting from the material mixing).
6. Remove excess material
   - The excess material is removed during the gel period of the material. The complete cure time is 4-7 minutes from the start of material mixing. (the cure time depends on the ratio of powder and liquid.)
7. Waterproof protection
   - After the completion of the adhesive, apply the waterproof material on the edge of the restoration to do waterproof protection.
8. Finished

**Operation procedures for Filling**

1. Cavity preparation
2. Application of conditioner
3. Taking powder and liquid
   - Take 1 spoon of powder and 1 drop of liquid.
4. Mixing the powder and liquid
   - Mix half portion of powder with all liquid, then incorporate the remaining powder and mix the whole. Total mixing should be completed within 1 minutes.
5. Filling and surface remolding
   - Fill the well-mixed material into the cavity. Operation should be completed in 2 minutes (starting from the material mixing). Remold the surface during the gel period of the material.
6. Waterproof protection
   - Apply the waterproof material on the edge of the restoration to do waterproof protection.
7. Finished
Light Curing Tray & Unit

- Timesaving
- Convenient
- Economical

- 1-minute operation, 5-minute light curing
- No need to measure nor mix
- 0.5-1 hour of labor cost saving for each set

Light Curing Tray

**Indication**
- Individual tray
- Temporary base-plate

**Delivery Form**
- Standard package: 50 pcs/box
- Sample kit: 2 pcs/bag

Light Curing Unit

**Indication**
- For polymerization of light curing tray and other light curing materials

**Delivery Form**
- Voltage: 220V / 110V
- Package: 1 set/box
- Net weight: 1kg
- Dimension: 290mm×228mm×120mm

Individual Tray Handle

**Indication**
- Handles for preparing individual tray

**Delivery Form**
- Package: 10 pcs / box
- MOQ: 10000 boxes
Operation Procedures

Operation procedures for individual tray of Light Curing Tray

1. Take the first impression with the traditional tray and make the plaster model. Mark the line of the individual tray on the plaster model with a pencil. Leave the sufficient space for labial, buccal frenum and frenum linguæ.

2. Fill undercuts with red wax.

3. Apply the separating agent.

4. Tear off the fleece completely, and place the tray on the model and bring the tray in shape.

5. Cut off the edges as drawn before.

6. Remaining materials can be used to make handles.

7. Place the tray into light curing unit for 5-minute light curing.

8. After the irradiation, separate the tray off the model.

9. Polish the tray, and remove sharp edges.
HUGE Cleaning Products

HUGE Floss Pick

- **Advantages**
  - Unique linear design protects gingiva from injuries.
  - Large contact area ensures high cleaning efficiency.
  - High tension and not easily broken.
  - Combined with toothpick and floss in one, this floss pick has broad wave-shaped handle, no slipping and more comfortable.

- **Delivery Form**
  - 50 picks / pack, 10 packs / box

HUGE Denture Cleansing Tablet

- **Advantages**
  - 5 minutes for degeming.
  - Remove stains of tea, coffee, etc.
  - Remove oral malodor.

- **Delivery Form**
  - 24 pcs / packs, 48 packs / box

HUGE Mouthwash

- **Advantages**
  - Bacterial plaques reducing.
  - Tooth decay preventing.
  - Gingiva strengthening and protecting.
  - Breath freshening.

- **Delivery Form**
  - 250 ml / bottle

HUGE Interdental Brush

- **Advantages**
  - Effective removal of tartar which cannot be removed by a toothbrush.
  - Effective massage on the gingiva.
  - L-shaped brush tip, easy cleaning on the sites of teeth that cannot ever be touched.

- **Delivery Form**
  - 5 pcs / pack
 Silicone Tool

- For adjusting the first impression made by putty when using two-stage impression technique

- **Delivery Form**
  - 1 pcs / box
  - Stainless steel material
  - Silver color

 Dispenser

- For Light Body, Heavy Body, Bite Registration and Gingival Mask

- **Delivery Form**
  - 1 pcs / box

 Mixer (Yellow)

- For Light Body and A-Silicone for Gingival Mask

- **Delivery Form**
  - 50 pcs / PE Bag

 Oral Tips (Yellow)

- For Light Body and A-Silicone for Gingival Mask

- **Delivery Form**
  - 50 pcs / PE Bag

 Mixer (Blue)

- For Heavy Body and Bite Registration

- **Delivery Form**
  - 6 pcs / PE Bag

 Auto Mixer

- For auto mixing silicone

- **Delivery Form**
  - 10 pcs / bag
Shandong Huge Dental Material Corporation

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