Passion For The Dental And Medical Materials

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New Century Dental
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New Century Dental Materials (SND) ’s history dates back to 1995, affiliated to Shanghai NGS Group and fully acquired by Shanghai Jiulong Fine Chemicals in 2003. “Advanced Technology, Intensive Investment and High Productivity” the operation principle of Jiulong Fine Chemicals has been entirely implemented in SND, which contributes to the continuous improvement on ISO9001, ISO13485 and CE quality assurance system.

SND is devoted to product quality control and new product development. Our product envelop includes Synthetic Resin Teeth, Denture Base Materials, Artificial Teeth Resin, Glass Ionomer Cement, Zinc Oxide Eugenol Cement, Dental Wax, Finishing Stone and other dental materials.

We keep growing for over 10 years with our products sold to more than 50 countries. Now we are glad to see our products and services are helping more and more patients, solving dental issues worldwide. That is what we value!

1995 Founded in Nanhui district of Shanghai, produce acrylic teeth and denture base materials.
1996 Acrylic teeth and denture base materials were both awarded as “Outstanding Technology Products of Shanghai”.
2003 Acquired by Shanghai Jiulong Fine Chemicals Co., LTD.
2004 Relocated from Nanhui to Jiading District of Shanghai.
2007 CE certificated on acrylic teeth and denture base materials.
2008 Denture base materials II (Self Curing) and artificial teeth resin (heat curing & self curing) were registered in SFDA.
2009 Glass Ionomer cement type I & II, Zinc Oxide Eugenol Cement were registered in SFDA.
2013 Company management and marketing center was established in Jiading New City.
2013 Headquarters’ R&D center was founded and recruited experts from overseas to join SND.
2014 Two Invention Patents were submitted for approval.
2014 Project of Dental Implant, Zirconia and CAN/CAM system was initiated.
2014 Zinc Polycarboxylate Cement Project was launched.
2014 Project of UV Curing Resin was launched.
2014 Sino-US joint venture was established after receiving foreign investment. New workshops reconstruction on the basis of GMP requirements was started.
2014 Stepped out of China to become a global player, Branches in US, Belgium and Hong Kong were established successively.
Zirconia Materials

Brief Introduction
- Restored Natural Tooth Lustre
- More lustre options
- The full range of colors emulates the lustre of natural tooth

Character
- Closer to the luster of natural tooth
- Flexural strength ≥ 1400 MPa consistently
- Fracture toughness ≥ 5MPa.m^1/2 consistently
- High translucency ≥ 20-50% consistently
- Excellent biocompatibility

Vita16 Shade Zirconia

Brief Introduction
- Besides, the application of color matching in the production of zirconia blocks with VITA colors could facilitate the denture manufacturing with separate processing and subsequent assembly technology of the interior and exterior crowns, whose luster can be closer to natural teeth.
- The traditional manual fixing technology is hence eliminated, and more standardized and rational process is achieved.

Character
- Closer to the luster of natural tooth
- Flexural strength ≥ 1400 MPa
- Fracture toughness ≥ 5MPa.m^1/2
- High translucency ≥ 20-50%
- Excellent biocompatibility

Full Range of Series and Specifications

<table>
<thead>
<tr>
<th>Blocks</th>
<th>Cylinder</th>
<th>Disc</th>
<th>Semi Disc</th>
</tr>
</thead>
<tbody>
<tr>
<td>20×14×15</td>
<td>55×16×19</td>
<td>Ø12×12</td>
<td>Ø96×10</td>
</tr>
<tr>
<td>20×14×15</td>
<td>58×29×16</td>
<td>Ø12×26</td>
<td>Ø96×12</td>
</tr>
<tr>
<td>20×15×15</td>
<td>60×20×25</td>
<td>Ø16×16</td>
<td>Ø96×14</td>
</tr>
<tr>
<td>20×19×19</td>
<td>63×25×16</td>
<td>Ø20×20</td>
<td>Ø96×16</td>
</tr>
<tr>
<td>40×15×14</td>
<td>63×25×22</td>
<td>Ø23×16</td>
<td>Ø98×18</td>
</tr>
<tr>
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<td>65×16×19</td>
<td>Ø23×22</td>
<td>Ø98×20</td>
</tr>
<tr>
<td>40×15×19</td>
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<tr>
<td>40×16×16</td>
<td>65×40×17</td>
<td>Ø25×50</td>
<td>Ø98×24</td>
</tr>
<tr>
<td>40×16×19</td>
<td>72×42×16</td>
<td>Ø25×60</td>
<td>Ø98×26</td>
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<tr>
<td>40×16×20</td>
<td>72×50×40</td>
<td>Ø30×50</td>
<td>Ø100×10</td>
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<td>40×19×19</td>
<td>75×36×16</td>
<td>Ø38×40</td>
<td>Ø100×12</td>
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<td>40×72×25</td>
<td>75×36×22</td>
<td>Ø100×14</td>
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<tr>
<td>42×16×16</td>
<td>85×40×22</td>
<td>Ø100×16</td>
<td></td>
</tr>
<tr>
<td>42×20×20</td>
<td></td>
<td>Ø100×18</td>
<td></td>
</tr>
<tr>
<td>42×16×20</td>
<td></td>
<td>Ø100×20</td>
<td></td>
</tr>
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<td>43×25×16</td>
<td></td>
<td>Ø100×22</td>
<td></td>
</tr>
<tr>
<td>43×25×22</td>
<td></td>
<td>Ø100×24</td>
<td></td>
</tr>
<tr>
<td>52×25×16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>52×25×22</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
CAD/CAM Milling Machine

Introduction

- Spindle of Jäger Germany, fine grinding ball screws and linear guides of THK Japan are applied to ensure the processing accuracy within ±0.005 gap.
- 1.5kw spindle power ensures the average processing speed of 1 tooth mode/5 minutes when processing metals with high hardness.

- A broad application range, including processing of Zirconium dioxide, PMMA resin blanks, Wax, Titanium, Chrome cobalt alloys, and etc. The machine is equipped with 2 systems that are easy to switch, cooling system can be used for processing Zirconium dioxide and PMMA resin blanks while dusting system needs to be used for processing Titanium, Chrome cobalt alloys, and etc.

- The unique partition design of elastic rubber guarantees that drive system like screw and guide is rigorously isolated from the processing space, which prevents the drive system from being damaged by those processing powder and cooling liquid, stabilizes the processing accuracy for the machine in a long term;
- The machine can be equipped with all types of scanners and related dental CAD/CAM software system.

Characteristics

- High-efficiency 5 Axis Machining
- High-precision zirconia cutting
- Automatic tool changer
- Automatic detection for broken tools
- Automatic one-key cutting
- High performance, cost-effective, cost savings

Technical Data

<table>
<thead>
<tr>
<th>Axis</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Traverse Path</td>
<td>300×200×150 mm</td>
</tr>
<tr>
<td>Traverse Speed</td>
<td>200mm/sec – 12m/min</td>
</tr>
<tr>
<td>Spindle</td>
<td>Alfred Jäger GmbH – Germany</td>
</tr>
<tr>
<td>Spindle Power</td>
<td>1.5 kw</td>
</tr>
<tr>
<td>Spindle Rpm</td>
<td>60,000 r/min</td>
</tr>
<tr>
<td>Servo Axis Motors</td>
<td>400 w AC Servo (Panasonic)</td>
</tr>
<tr>
<td>Linear Guides &amp; Ball Screws</td>
<td>THK – Japan</td>
</tr>
<tr>
<td>Discs For Milling</td>
<td>98mm diameter</td>
</tr>
<tr>
<td>Monitor</td>
<td>Touch Screen 19”</td>
</tr>
<tr>
<td>Working Accuracy</td>
<td>0.01mm</td>
</tr>
<tr>
<td>Automatic Tool Changer</td>
<td>6 tools</td>
</tr>
<tr>
<td>Dusting Power</td>
<td>2.2 kw</td>
</tr>
<tr>
<td>System Attraction</td>
<td>18 Kpa</td>
</tr>
<tr>
<td>Cooling Power</td>
<td>0.75 kw</td>
</tr>
<tr>
<td>System Flow</td>
<td>70 L/min</td>
</tr>
<tr>
<td>Monitor</td>
<td>Touch Screen 19”</td>
</tr>
<tr>
<td>Mains Voltage</td>
<td>230 V / 50 Hz</td>
</tr>
<tr>
<td>Size</td>
<td>914×750×1700 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>300 kg</td>
</tr>
</tbody>
</table>
A-silicone Impression Material

**BlueSmart™ — Putty**

**Introduction**
- Crown and bridge impressions
- Inlay and onlay impressions
- Partial denture impression
- Attachment Impression
- Implant

**Technical Data**

<table>
<thead>
<tr>
<th>BlueSmart™ — Putty</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixing time</td>
<td>0 : 30Min</td>
</tr>
<tr>
<td>Total working time</td>
<td>≤1 : 30Min</td>
</tr>
<tr>
<td>Oral setting time</td>
<td>≥3 : 30Min</td>
</tr>
<tr>
<td>Elastic recovery</td>
<td>≥99%</td>
</tr>
<tr>
<td>Strain-in-compression</td>
<td>2%—8%</td>
</tr>
<tr>
<td>Linear dimensional change (after 24 h)</td>
<td>&lt;0.5%</td>
</tr>
<tr>
<td>Detail reproduction</td>
<td>75μm</td>
</tr>
</tbody>
</table>

*Times refer to normal room temperature (72°F/23°C and a normal relative humidity of air (50%))

**Packing**
Base and Catalyst 2 jars @400g paste with 2 measuring spoons.

**BlueSmart™ — Light Body**

**Introduction**
- Crown and bridge impressions
- Inlay and onlay impressions
- Partial denture impression
- Attachment Impression
- Implant

**Technical Data**

<table>
<thead>
<tr>
<th>BlueSmart™ — Light Body</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>Mixing time</td>
<td>/</td>
</tr>
<tr>
<td>Total working time</td>
<td>≤1 : 30Min</td>
</tr>
<tr>
<td>Oral setting time</td>
<td>≥3 : 30Min</td>
</tr>
<tr>
<td>Elastic recovery</td>
<td>≥99%</td>
</tr>
<tr>
<td>Strain-in-compression</td>
<td>2%—6%</td>
</tr>
<tr>
<td>Linear dimensional change (after 24 h)</td>
<td>&lt;0.4%</td>
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<tr>
<td>Detail reproduction</td>
<td>20μm</td>
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</tbody>
</table>

*Times refer to normal room temperature (72°F/23°C and a normal relative humidity of air (50%))

**Packing**
1 tubes @50ml paste or 2 tubes @50ml paste
Glass Ionomer Cement

Product Features (TYPE I)
- High compression strength, low polymerization heat and expansion coefficient, good transparency.
- Good marginal seal, insoluble, non-irritant, and excellent biocompatibility.
- Easy handling, sufficient work time.

Product Features (TYPE II)
- Thinner film thickness, better adhesion to tooth structure.
- High compression strength, and reach 146MPa, lower solubility and radiopaque performance.
- Better performance of fluorides release and better handling.

Zinc-Oxide/Eugenol Cement

Product Features (TYPE III)
- IT is an ideal material and with a very long history of application in dentistry clinical.
- Possess lower setting time, giving a sedative effect to the pulp with minimum irritation, and promote renewal of dentin and pulp.
- As a cavity base or lining, it provides protection against thermal irritation.

Product Features (TYPE IV)
- A traditional dental drug and with a very long history of clinical application.
- Use high quality eugenol as raw materials, purity ≥95%.

<table>
<thead>
<tr>
<th>Model</th>
<th>Shades</th>
<th>Package</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE I</td>
<td>1#, 2#, 3#</td>
<td>35g/powder+20ml/liquid</td>
<td>Restorative filling of Class III, V cavities, wedge-shaped defect, liner &amp; base.</td>
</tr>
<tr>
<td>TYPE II</td>
<td>1#, 2#, 3#</td>
<td>15g/powder+10ml/liquid</td>
<td>Cementation of crowns, bridges, filling of class III, cavities, wedge-shaped defect, liner &amp; base.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>Packing</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE III</td>
<td>(2×10g powder+7.5ml liquid)/Box</td>
<td>Used for immediate relief from pain caused by deep cavity, pulpotitis, etc. When mixed with zinc oxide powder, it can be used as a cavity base or lining.</td>
</tr>
<tr>
<td>TYPE IV</td>
<td>20ml/Bottle</td>
<td></td>
</tr>
</tbody>
</table>
Multi-layer Synthetic Resin Teeth

New base

Product Features:
- Two layer synthetic resin teeth, Asia Mould.
- Excellent bonding characteristics with Denture Base Materials.
- High molecular weight poly(methyl methacrylate) polymer as raw materials, and possess excellent biocompatibility, look like natural teeth precisely both in shade and form.
- Unique crosslinking structure offers excellent hardness and wear resistance.
- Apply CAD/CAM technology process mould, and make sure the artificial teeth possess good precision and symmetry.

Product application:
Making full and partial denture.

New classic

Product Features:
- Made of 3-layers structure, resulting in a natural appearance.
- High molecular weight poly(methyl methacrylate) polymer as raw materials, and possess excellent biocompatibility, look like natural teeth precisely both in shade and shape.
- Unique crosslinking structure offers excellent hardness and wear resistance.
- Apply CAD/CAM technology process mould, and make sure the artificial teeth possess good precision and symmetry.

Product application:
Making full and partial denture.

Moulds

<table>
<thead>
<tr>
<th>Moulds</th>
<th>Anterior: Upper: T1,T2,T3,T4,T5,T6,T7, T8,T9,T10, S1,S2,S4,S6, O1,O2,O6,O8, Low: L25,L37,L44,L46,L62, L67,L68, Posterior: S28,S30,S32,S34, M32,M34</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shades</td>
<td>VITA 16 A-D</td>
</tr>
<tr>
<td>Package</td>
<td>6x16 / 8x12 / 28x1 / 28x3 / box all Packing available</td>
</tr>
</tbody>
</table>

Moulds

<table>
<thead>
<tr>
<th>Moulds</th>
<th>Anterior: Upper: T1,T2,T3,T4,T5,T6,T7, T8,T9,T10, S1,S2,S4,S6, O1,O2,O6,O8, Low: L25,L37,L44,L46,L62, L67,L68, Posterior: S28,S30,S32,S34, M32,M34</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shades</td>
<td>VITA 16 A-D</td>
</tr>
<tr>
<td>Package</td>
<td>6x16 / 8x12 / 28x1 / 28x3 / box all Packing available</td>
</tr>
</tbody>
</table>
New Puls

**Product Features**
- Natural design
- Composite resin materials
- High grinding resistance
- Easy to row the teeth
- The surface hardness of Healthy Teeth reaches 21HVO

**Product application**
Making full and partial denture.

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New Way

**Product Features**
- Made of 3-layers structure for anterior and posterior, European mould, resulting in a natural appearance.
- High molecular weight poly(methyl methacrylate) polymer as raw materials, and possess excellent biosafety, look like natural teeth precisely both in shade and shape.
- Unique crosslinking structure offers excellent hardness and wear resistance.
- Apply CAD/CAM technology process mould, and make sure the artificial teeth possess good precision and symmetry.

**Product application**
Making full and partial denture.

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**Moulds**

**Anterior:**
- Upper: S3,S4,S5, TC3,TC4,TC5
- Low: L26,L27,L28

**Posterior:**
- M29,M31,M33

**Shades**
- VITA 16 A-D

**Package**
- 28×1/box

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**Moulds**

**Anterior:**
- Upper: 13,20,22,27,32,33, 34,35,37,40,45
- Low: 06,08,10,11

**Posterior:**
- Upper: 72,74,76,79
- Low: 72,74,76,79

**Shades**
- G1,G2,G3,N2,N3,R3,A1,A2

**Package**
- 6×16/8×12/box
**Denture Base Materials**

**Product Features**
- **High quality raw materials**
  - The main composition poly(methyl methacrylate)
  - Processes high and uniform molecular weight, small of granularity and suitable working time.
- **Reliable performance**
  - Excellent cross breaking strength, fracture and impact, little polymerization shrinkage, lower residual monomer after polymerization of denture base.
- **Excellence biocompatibility**
  - With additional Proven safe pigment and red fiber for bio-shade (veined), there is a variety of shades to fill different gingival color.

**Powder Description**

<table>
<thead>
<tr>
<th>Spec</th>
<th>Shade</th>
<th>Packing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heat Curing</td>
<td>Pink 2#/ 3#</td>
<td>100g/bottle</td>
</tr>
<tr>
<td>Self Curing</td>
<td>Bio-shade (Veined) 2#/ 3#</td>
<td>500g/bottle</td>
</tr>
<tr>
<td></td>
<td>Bio-shade transparent (Veined) 2#/ 3#</td>
<td>4kg/drum</td>
</tr>
<tr>
<td></td>
<td></td>
<td>25kg/drum</td>
</tr>
</tbody>
</table>

**Liquid Description**
- Mixed with denture base materials powder and artificial teeth resin.

**Self-cure 7 Color Acrylic Denture**

**Product application**
- All types of splint
- Functional orthodontic appliances
- Deciduous dentures
- Temporary dentures
- Individual trays

<table>
<thead>
<tr>
<th>Shade</th>
<th>Colorful 7 colors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packing</td>
<td>7×20g/bottle 100ml/liquid</td>
</tr>
</tbody>
</table>

**Separating Agent**

**Product Features**
- An effective separator in dental use, and with sodium alginate as main ingredient.
- When making artificial denture, it is applied to the plaster model, forming a thin and durable separating film to prevent the plaster from adhering to the resin after curing, and allowing rapid removal of plaster from resin.

**Product application**
- Separating agent for denture base from resin.
- Packing: 150ml/bottle, 600ml/bottle, 25Kg/drum
Artificial Teeth Resin

Product Features

► High quality raw materials
  The main composition is synthesized by suspension polymerization based on MMA
  Posses high molecular weight, little residual monomer, homogeneous and small
  of granularity distribution, superior burnishing and polishing.

► Reliable performances
  Small polymerized shrinkage, little residual monomer after polymerization, no air
  bubble and intespaces, high impact intensity and good hardness and wear resistance of
  fabricated teeth.

► Wide arrange shades for selection
  With additional safety Proven pigment, the color choices from transparency to light yellow,
  heavy yellow, and patients can make more convenient choices.

Product Application

► Making artificial teeth crowns and bridges.

<table>
<thead>
<tr>
<th>Spec</th>
<th>Shade</th>
<th>Packing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heat Curing</td>
<td>Ivory 0# 1# 2# 3# 4#</td>
<td>100g/bottle 500g/bottle 4kg/drum 25kg/drum</td>
</tr>
<tr>
<td>Self Curing</td>
<td>VITA A1 A2 A3 A3.5 A4</td>
<td></td>
</tr>
</tbody>
</table>

Grinding & Cutting Materials

Trimming Stones

► Made from high quality and medium granularity white corundum,
  with exclusive ceramic bonded for ultimate in sharp cutting of polymethacrylat resin

Abrasive Wheels With Handle

► Made from high quality and medium granularity silicon carbide, and used Clinically
  in the preparation of tooth diameter of shank is 2.35mm

Dental Abrasive Wheels

► Made of high quality and medium granularity silicon carbide and mainly used in
  trimming natural teeth and for abrasion of metallic and non-metallic materials, etc.
  ► We also support different products by customized service.

Trimming Stones

9 x 19
14 x 23

Abrasive Wheels With Handle

9#
10#
11#
13# White
13# Green
14#
15#
20#
31#
33#
35#
42#
50#

Dental Abrasive Wheels

306#
307#
309#
310#
312#
Dental Alginate Impression Material

Dental alginate Impression Material has lots features including readily mixing, high property and cheap price, especially the flexible and accurate impression mould can express the intraoral halitite undercuts precisely and can be easily separated from setting gypsum mould.

Usage: Used as teeth and intraoral structure impressions.
Main Compositions: Diatomaceous earth, alginate, calcium sulfate, agent and food flavoring etc.

Technical data:

<table>
<thead>
<tr>
<th>Items</th>
<th>Requirement</th>
<th>Items</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Powder</td>
<td>Uniform / free from impurities</td>
<td>Setting time</td>
<td>2’30”-3’00”</td>
</tr>
<tr>
<td>Color</td>
<td>Regular / Purple Color Changing: after mixed with water, Purple red change to white gradually</td>
<td>Color changing time</td>
<td>2’30”-3’00”</td>
</tr>
<tr>
<td>Scent</td>
<td>Mint</td>
<td>Compressive strength</td>
<td>20.35MPa</td>
</tr>
<tr>
<td>powder : water</td>
<td>10g : 23-25ml</td>
<td>Strain in compression</td>
<td>15-20%</td>
</tr>
<tr>
<td>Mixed material</td>
<td>Mixing 100c, Homogeneous / free from lumps / smooth surface / a smooth plastic mate</td>
<td>Compatibility with gypsum and reproduction of detail</td>
<td>Reproduce 30um-180um</td>
</tr>
<tr>
<td>Total working time</td>
<td>1’30”</td>
<td>Recovery from deformation</td>
<td>&gt;95%</td>
</tr>
</tbody>
</table>

※ Test environment: in distilled or ion-free water at 23℃.

Packing
- Types: Regular, Color Changing
- 500g / bag, 24bags/carton; 1000g/ barrel, 12barrels/carton

Dental Wax

Base plate wax
- Imported American Raw Wax, excellent flexibility and plasticity without bad odor
- Optimum tenacity and pliability, uniform in color and smooth in texture.
- It does not adhere nor cling to wax carver during carving and trimming.
- Used as base plate materials for making Denture base and bite rims.

Dental casting wax
- Model materials used for restoration of casting denture, suitable for making wax pattern of Denture cobalt chromium alloy clasp and spore.

Description

<table>
<thead>
<tr>
<th>Products Name</th>
<th>Shade</th>
<th>Packing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base plate wax</td>
<td>Red</td>
<td>250g/box, 145x75x1.6mm</td>
</tr>
<tr>
<td>(Medium &amp; Hard)</td>
<td></td>
<td>500g/box, 170x90x2.2mm</td>
</tr>
<tr>
<td>Denture base plate</td>
<td>Red</td>
<td>20PCS/BOX</td>
</tr>
<tr>
<td>Bite wax</td>
<td>Red, Yellow, Green</td>
<td>250g/box</td>
</tr>
<tr>
<td>Dental casting wax</td>
<td>Blue</td>
<td>50g/box, 0.8/1.2/1.5mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100g/box, 2.0/25/3/3.5/4/4.5/5mm</td>
</tr>
</tbody>
</table>