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Passion For The Dental And Medical Materials



New Century Dental

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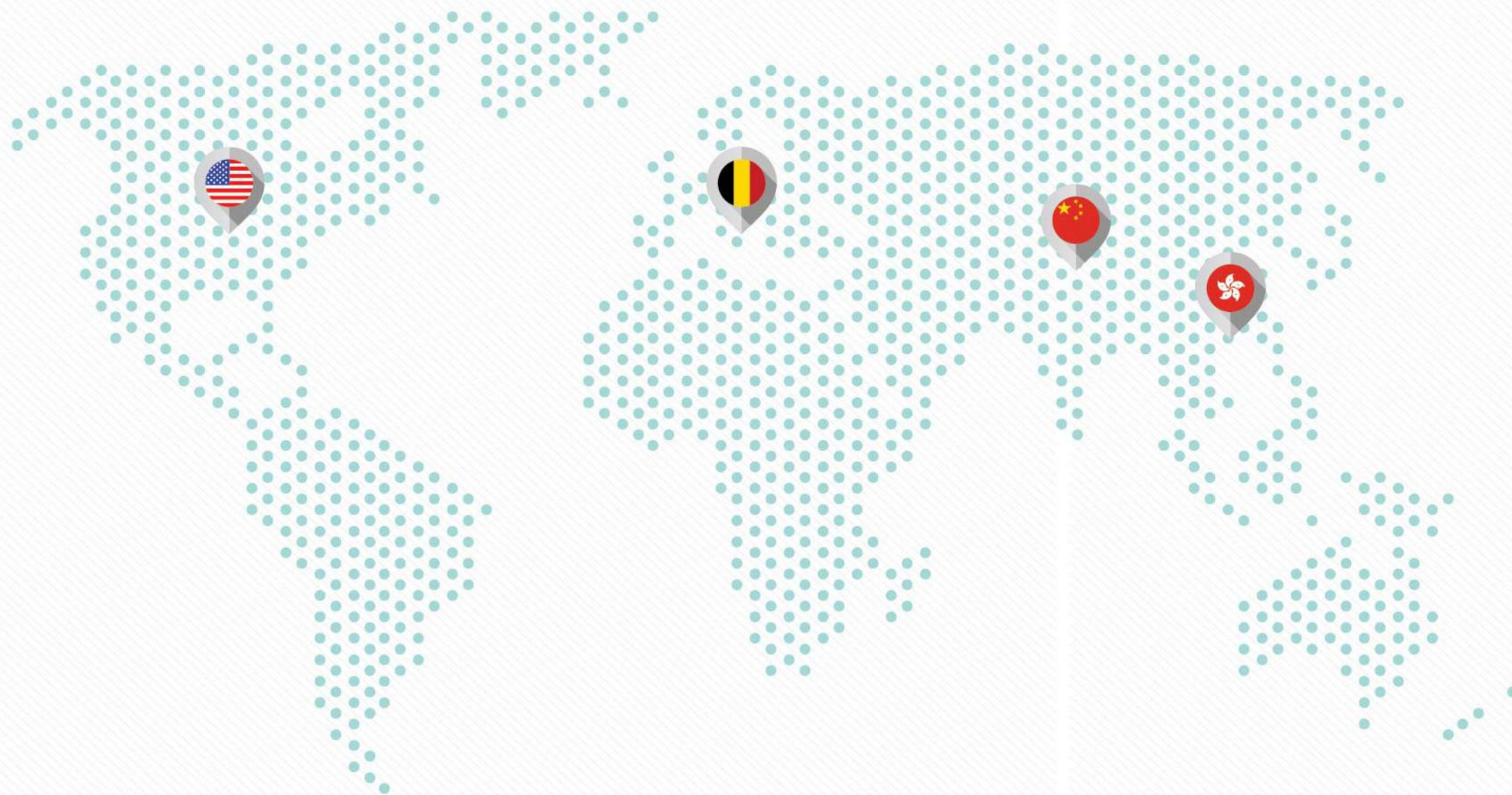
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New Century Dental

Shanghai New Century Dental Materials Co.,Ltd.

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Company Introduction

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!



Development History

- 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 Nahui to Jiading District of Shanghai.
- 2006 ISO9001 & ISO13485 quality assurance system certificated.
- 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.
- 2013 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 $\geq 5\text{MPa}\cdot\text{m}^{1/2}$ consistently
- ▶ High translucency $\geq 20\text{-}50\%$ consistently
- ▶ Excellent biocompatibility

Full Range of Series and Specifications

Blocks	Cylinder	Disc	Semi Disc
20×14×15	55×16×19	Φ12×12	Φ98×10
20×14×19	58×29×16	Φ12×26	Φ98×12
20×15×19	60×20×25	Φ16×16	Φ98×14
20×19×19	63×25×16	Φ20×20	Φ98×16
40×15×14	63×25×22	Φ23×16	Φ98×18
40×15×15	65×16×19	Φ23×22	Φ98×20
40×15×19	65×30×20	Φ25×26	Φ98×22
40×16×16	65×40×17	Φ25×50	Φ98×24
40×16×19	72×42×16	Φ25×60	Φ98×26
40×16×20	72×25×40	Φ30×50	Φ100×10
40×19×19	75×36×16	Φ38×60	Φ100×12
40×72×25	75×36×22		Φ100×14
42×16×16	85×40×22		Φ100×16
42×20×20			Φ100×18
42×16×20			Φ100×20
43×25×16			Φ100×22
43×25×22			Φ100×24
52×25×16			
52×25×22			



Vita 16 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 $\geq 5\text{MPa}\cdot\text{m}^{1/2}$
- ▶ High translucency $\geq 20\text{-}50\%$
- ▶ Excellent biocompatibility



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, stables 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

Axis	5
Traverse Path	300×200×150 mm
Traverse Speed	200mm/sec – 12m/min
Spindle	Alfred Jäger GmbH – Germany
Spindle Power	1.5 kw
Spindle Rpm	60.000 r/min
Servo Axis Motors	400 w AC Servo (Panasonic)
Linear Guides & Ball Screws	THK – Japan
Discs For Milling	98mm diameter
Monitor	Touch Screen 19"
Working Accuracy	0.01mm
Automatic Tool Changer	6 tools
Dusting Power	2.2 kw
System Attraction	18 Kpa
Cooling Power	0.75 kw
System Flow	70 L/min
Monitor	Touch Screen 19"
Mains Voltage	230 V / 50 Hz
Size	914×750×1700 mm
Weight	300 kg

A-silicone Impression Material

BlueSmart™ — Putty

Introduction

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

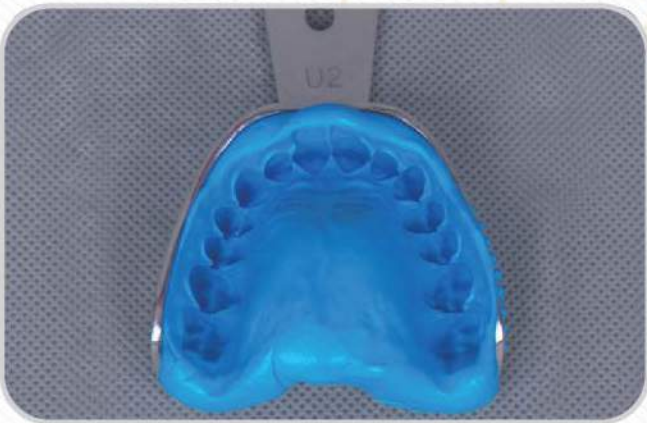
Technical Date

BlueSmart™ — Putty	Date
Mixing time	0 : 30Min
Total working time	≤1 : 30Min
Oral setting time	≥3 : 30Min
Elastic recovery	≥99%
Strain-in-compression	2%—8%
Linear dimensional change (after 24 h)	≤0.5%
Detail reproduction	75μm

※ Times refer to normal room temperature (72°F/ 23℃ 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 Date

BlueSmart™ — Light Body	Date
Mixing time	/
Total working time	≤1 : 30Min
Oral setting time	≥3 : 30Min
Elastic recovery	≥99%
Strain-in-compression	2%—8%
Linear dimensional change (after 24 h)	≤0.4%
Detail reproduction	20μm

※ Times refer to normal room temperature (72°F/ 23℃ 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, not-irritant, and excellent biocompatibility.
- ▶Easy handing, Sufficient work time.

Product Features (TYPE II)

- ▶Thinner film thickness, better adhesion to tooth structure.
- ▶High compression strength, and reach 160MPa, lower solubility and radiopaque performance.
- ▶Better performance of fluorides release and better handling.



Model	Shades	Package	Application
TYPE I	1# , 2# , 3#	35g/powder+20ml/liquid	Restorative filling of Class III, V cavities, wedge-Shaped Defect, liner & base
TYPE II	1# , 2# , 3#	15g/powder+10ml/liquid	Cementation of crowns,bridges, filling of class III, cavities, Wedge-Shaped Defect, liner & base.

Zinc-Oxide/Eugenol Cement

Product Features (TYPE III)

- ▶It is an ideal materials and with 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 tradifional dental drug and with very long history of clinical application
- ▶Use high quality eugenol as raw materials, purity ≥95%



Model	Packing	Application
TYPE III	(2×10g powder+7.5ml liquid)/Box	Used for immediate relief from pain caused by deep cavity, pulpities, etc. When mixed With zinc oxide powder, it can be used as a cavity base or lining
TYPE IV	20ml/Bottle	

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 biosafety, 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 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.

Moulds

- 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



Shades

VITA 16 A-D



Package

6×16 / 8×12 / 28×1 / 28×3 / box
all Packing available



Moulds

- Anterior:**
Upper T1,T2,T3,T4,T5,T6,T7,
T8,T9,T10
S1,S2,S4,S6
Low L25,L37,L44,L46,L62,
L67,L68
- Posterior:**
S28,S30,S32,S34
M32,M34



Shades

VITA 16 A-D



Package

6×16 / 8×12 / 28×1 / 28×3 / box
all Packing available



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.

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.

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



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 suitbale working time.
- **Reliable performance**
Excellence 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 fit different gingival color.

Powder Description

Spec	Shade	Packing
Heat Curing Self Curing	Pink 2# 3#	100g/bottle
	Bio-shade(Veined)2# 3#	500g/bottle
	Bio-shade transparent	4kg/drum
	(Veined)2# 3#	25kg/drum

Liquid Description

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

Spec	Packing
Heat Curing Self Curing	100ml/bottle
	500ml/bottle
	4L/drum
	25L/drum



Self-cure 7 Color Acrylic Denture

Product application

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

Shade	Colorful 7 colors
Packing	7×20g/bottle 100ml/liquid



Separating Agent

Product Features

- An effectives 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. Possesses 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 are from transparency to light yellow, heavy yellow, and patients can make more convenient choices.

Product application

- Making artificial teeth crown and bridges.

Spec	Shade	Packing
Heat Curing	Ivory 0# 1# 2# 3# 4#	100g/bottle
Self Curing	VITA A1 A2 A3 A3.5 A4	500g/bottle 4kg/drum 25kg/drum



Grinding & Cutting Materials

Trimming Stones

- Made from high quality and medium granularity white corundum, with exclusive ceramic bonded for ultimate in sharp cutting of polymerthacrylat 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, ect.
- We also support different products by customized service.

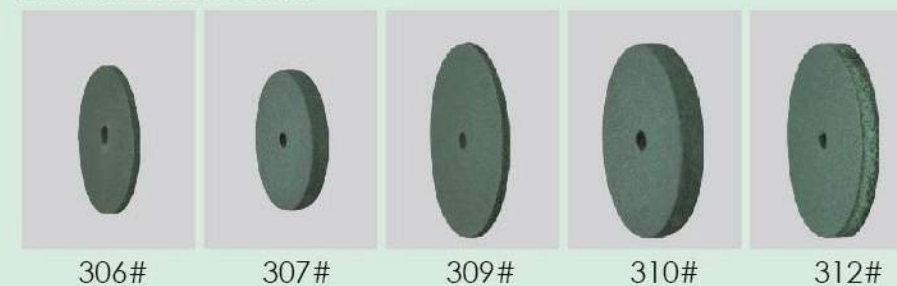
Trimming Stones



Abrasive Wheels With Handle



Dental Abrasive Wheels



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 hairlike 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:

Items	Requirement	Items	Requirement
Powder	Uniform / free from impurities	Setting time	2'30"-3'00"
Color	Regular: Purple Color Changing: after mixed with water, Purple red change to white gradually	Color changing time	2'30"-3'00"
Scent	mint	Compressive strength	≥0.35MPa
powder : water	10g: (23-25)ml	Strain in compression	(5-20)%
Mixed material	Mixing 30sec/Homogeneous/free from lumps/ smooth surface/a smooth plastic mass	Compatibility with gypsum and reproduction of detail	Reproduce 50um – line
Total working time	1'30"	Recovery from deformation	≥95%

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

Packing

►Type: 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 sprure.



Description

Products Name	Shade	Packing
Base plate wax (Medium & Hard)	Red	250g/box 145×75×1.6mm 500g/box 170×90×2.2mm
Denture base plate	Red	20PCS/BOX
Bite wax	Red, Yellow, Green	250g/box
Dental casting wax	Blue	50g/box Die, 0.8/1/1.2/1.5mm 100g/box Die, 2.0/2.5/3/3.5/4/4.5/5mm