Saving the Natural Tooth

META BIOMED

META BIOMED


Gutta Percha Points
Absorbent Paper Points


ADSEAL
ADSEAL


Nexcomp



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ENDODONTICS

[en-doh-don-tiks]

noun:
the branch of dentistry dealing with the cause, diagnosis, prevention, and treatment of diseases of the dental pulp, usually by removal of the nerve and other tissue of the pulp cavity and its replacement with suitable filling material; pulp canal therapy; root canal therapy.



Aurum Blue files allow me to work efficiently and safely at the same time.
Their cross-sectional design combined with the NiTi controlled memory alloy are the perfect combination for providing cutting efficiency, great flexibility and outstanding fatigue resistance.

— Jenner Argueta D.D.S. – M.Sc.
Guatemalan Endodontics Academy President



20/.10 20/.04 25/.06 35/.04

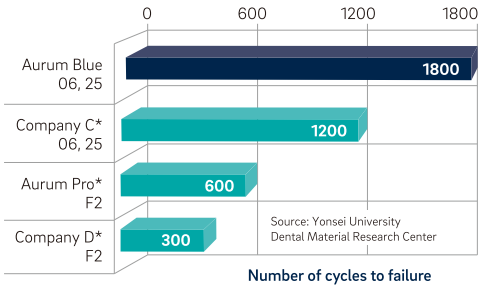
Aurum Blue™ Controlled Memory File

Advantages

- **Martensitic Alloy**
  Aurum Blue stays as Martensite form at room temperature due to special heat treatment, it gives super flexibility by which Aurum Blue has strong resistant for cyclic fatigue.
- **Super Flexible Alloy**
  Significantly reduces the risk of ledging, transporation or perforation of canals
- **Pre-bendable**
  much easier access to a canal orifice
- **Electro-polished**
  Removing imperfection of the surface so that it can reduce possibilities of fractures due to micro cracks

Comparison

- **Extremely resistant to fracture**



- **Cross-section, efficient and safe**

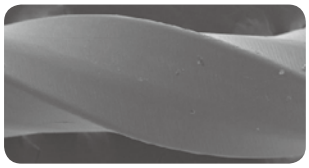


- Square Shape : Size below 25/.04
- Excellent Centering, Resistant to fracture

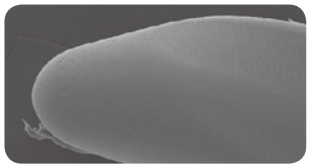


- Convex Triangular Shape : Size above 25/.06
- Resistant Torsional Stress while maintaining Flexibility

- **SEM (Aurum Blue)**



Clean surface of Aurum Blue



Non-cutting tip



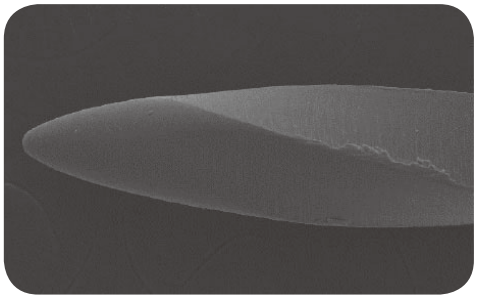
13/.025 17/.025

Aurum G™ Glide Path File

Advantages

- **Increased Flexibility**
  With increased flexibility and enhanced to cyclic fatigue due to special heat-treatment, Aurum G offers many advantages over manual stainless steel files

- **Surface Treatment**
  results in significantly reduced fractures caused by micro cracks

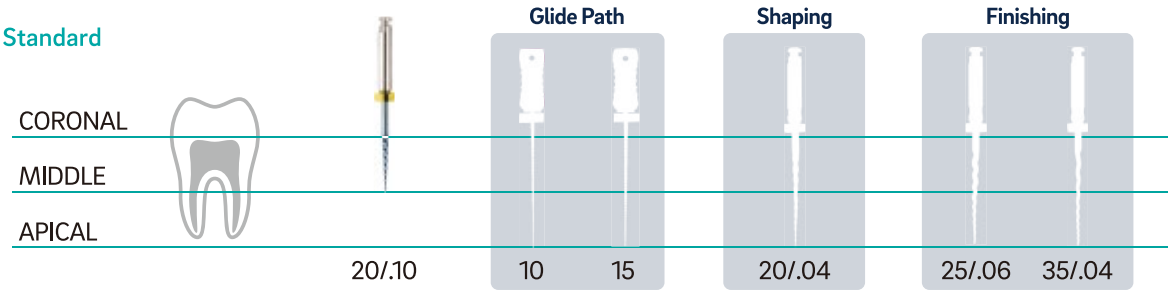


Item List

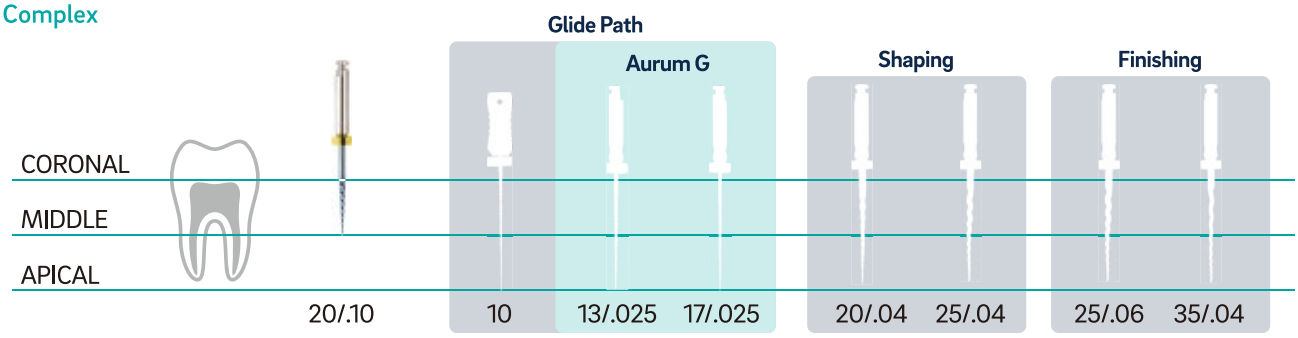
Contents	17mm	21mm	25mm	31mm
Aurum Blue, 4/pack				
Sequence Pack (20/.10, 20/.04, 25/.06, 35/.04)		○	○	○
CF (20/.10)	○			
T1 (20/.04)		○	○	○
T1.5 (25/.04)		○	○	○
T2 (25/.06)		○	○	○
T2.5 (30/.04)		○	○	○
T3 (35/.04)		○	○	○
T4 (40/.04)		○	○	○
T4.5 (45/.04)		○	○	○
Aurum G • 4/pack				
Assort Pack (13/.025 3pcs, 17/0.25 3pcs)		○	○	○
13/.025		○	○	○
17/.025		○	○	○

Aurum Blue, Aurum G Protocol

• Standard



• Complex



Aurum Blue RPM: 500, Torque: 2.0 Ncm
Aurum G RPM: 300, Torque: 1.5 Ncm

• Post Op









Aurum Pro™ Familiar Sequence, Different Flexibility

Advantages

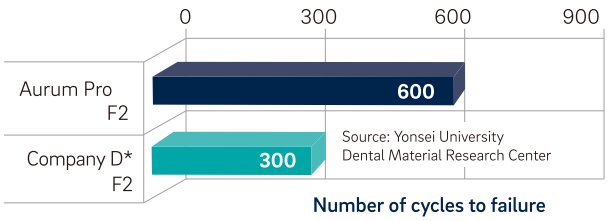
- **Conservative System;**
  - Aurum Pro (5%,5%,6%) VS Conventional file (7%,8%,9%) Less taper leads you to accomplish conservative cutting.
    More dentin structure can be saved.
  - Amazing Flexibility; distinctive flexibility against original due to unique technology, Aurum Pro shows reduced transportation rate in Curved- Root Canal System.

- **The system you trust**
  The most commonly used rotary file system

- **Incredible strength**
  100% more resistant to cyclic fatigue than Company D

Comparison

- **Extremely resistant to fracture**



Matching GP&PP



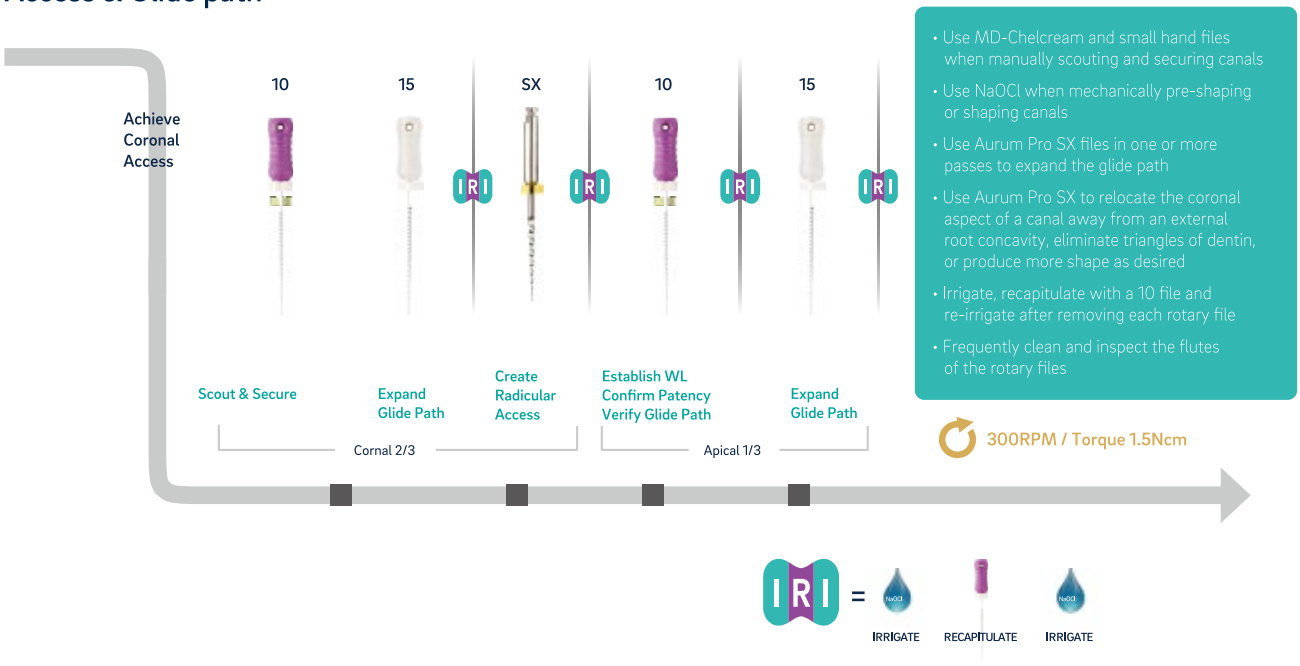
Absorbent Paper Points



Gutta Percha Points

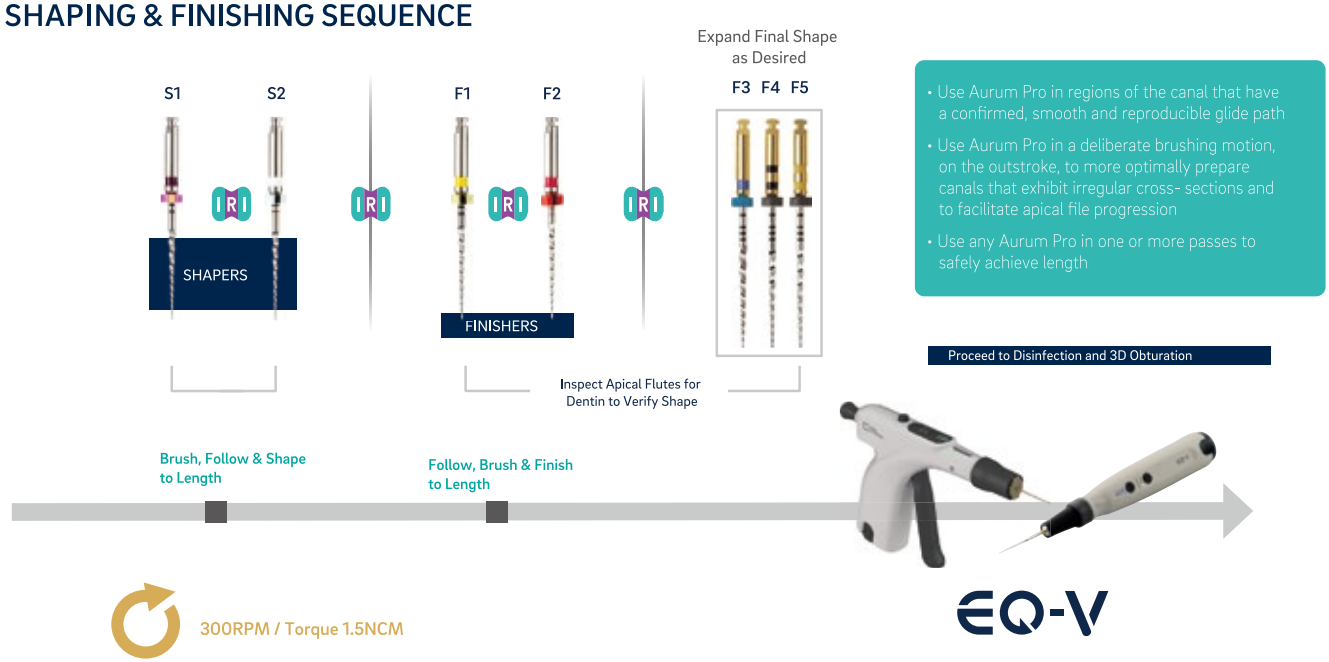
Aurum Pro Protocol

Access & Glide path



- Use MD-Chelcream and small hand files when manually scouting and securing canals
- Use NaOCl when mechanically pre-shaping or shaping canals
- Use Aurum Pro SX files in one or more passes to expand the glide path
- Use Aurum Pro SX to relocate the coronal aspect of a canal away from an external root concavity, eliminate triangles of dentin, or produce more shape as desired
- Irrigate, recapitulate with a 10 file and re-irrigate after removing each rotary file
- Frequently clean and inspect the flutes of the rotary files

SHAPING & FINISHING SEQUENCE



- Use Aurum Pro in regions of the canal that have a confirmed, smooth and reproducible glide path
- Use Aurum Pro in a deliberate brushing motion, on the outstroke, to more optimally prepare canals that exhibit irregular cross- sections and to facilitate apical file progression
- Use any Aurum Pro in one or more passes to safely achieve length

Proceed to Disinfection and 3D Obturation

EQ-V

The Best Choice for Continuous Wave Obturation



Gutta Percha Points

.02/.04/.06/.08/Aurum Pro(F1~F3) Gutta Percha Points

Advantages

- Stiff but flexible
- Excellent radiopacity
- Various sizes, tapers and packages

Length Marked



Size & Specification

- **02 Taper:** 8~140
- **04, 06 Taper:** 15~80
- **08 Taper:** 15~40
- **Non Standard**
  - Non-Standard: XF, FF, MF, F, FM, M, ML, L, XL
  - Japanese Type: JF-S, JF-M, JF-L, JS, JM, JL, JL-S, JL-M, JL-L
  - De Trey Type: XX-F, X-F, Fine, Medium
  - Protaper Size(F1~F5)

Specifications

Size	Taper (Points)				Packing Type
	02(120)	04(60)	06(60)	08(60)	
8	○				Please check Page 12
10	○				
15	○	○	○	○	
20	○	○	○	○	
25	○	○	○	○	
30	○	○	○	○	
35	○	○	○	○	
40	○	○	○	○	
45	○	○	○		
50	○	○	○		
55	○	○	○		
60	○	○	○		
70	○	○	○		
80	○	○	○		
90	○				
100	○				
110	○				
120	○				
130	○				
140	○				

Shelf life

- 4 years from the production date.



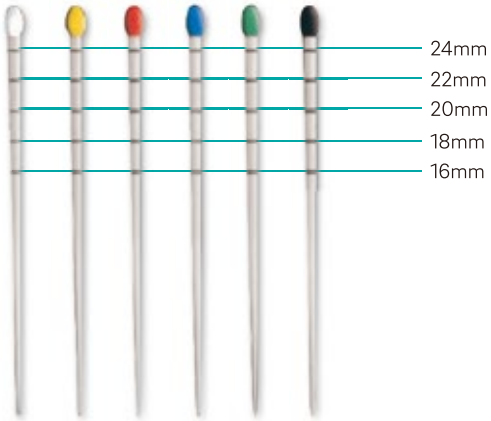
Absorbent Paper Points

.02/.04/.06/.08/Aurum Pro(F1~F3) Paper Points

Advantages

- Highly absorbent
- Sterilized individual packages
- Various sizes, tapers and packages

Length Marked



Size & Specification

- **02 Taper:** 8~140
- **04, 06 Taper:** 15~80
- **08 Taper:** 15~40
- **Non Standard**
  - Non-Standard: XX-Fine, X-Fine, Fine, Medium, Coarse, X-Coarse
  - Protaper Size(F1~F5)

Specifications

Size	Taper (Points)				Packing Type
	02(120)	04(60)	06(60)	08(60)	
8	○				
10	○				
15	○	○	○	○	
20	○	○	○	○	
25	○	○	○	○	
30	○	○	○	○	
35	○	○	○	○	
40	○	○	○	○	
45	○	○	○		
50	○	○	○		
55	○	○	○		
60	○	○	○		
70	○	○	○		
80	○	○	○		
90	○				
100	○				
110	○				
120	○				
130	○				
140	○				

Please check Page 12

Shelf life

- 5 years from the production date.

Packing Type

(Private Labels are available in all packages)

6 Vial Packing (Square)



- Code : P.31
- Regular Packing Points :
  - GP: 60/120 Points - PP: 60/200 Points
- Dimension : 84×51×16(㎜)

6 Vial Packing (Round)



- Code : P.31
- Regular Packing Points :
  - GP: 60/120 Points - PP: 60/200 Points
- Dimension : 84×51×16(㎜)

Sliding Type Dispenser



- Code : P.71
- Regular Packing Points :
  - GP: 60/120 Points - PP: 60/200 Points
- Dimension : 70×45×12(㎜)

4 Compartment Dispenser



- Code : P.51
- Regular Packing Points :
  - GP: 60/120 Points - PP: 60/200 Points
- Dimension : 77×45×13(㎜)

Endo Organizer



- Code : P.11
- Spill Proof 12 Compartments
- Size : ISO 15 - 80
- Color Coded Available
- Regular Packing Points :
  - GP: 240 Points - PP: 400 Points

Blister Cell



- Code : P.61
- Regular Packing Points : 180 / 200 Points
- Dimension : 163×54×11(㎜)
- Available for PP only



Metapex Calcium Hydroxide with Iodoform

Advantages

- Excellent antibacterial effect and radiopacity
- Premixed paste
- Syringe type for easy delivery of the paste into the canal
- Disposable tips for prevention of cross-contamination

Composition

- Calcium Hydroxide, Iodoform, Silicone oil

Applications

- Weeping canal
- Formation of a hard tissue barrier(Apexification)
- Root canal filling for deciduous teeth
- Internal & external root resorption

Components

- 2.2g paste in a syringe (2 syringe packing available)
- Disposable tips
- One ring rotator for direction control of the tip
- Dimension : 228×61×22(㎜)
- Weight : 46g

Shelf life

- Two years from the production date.

Clinical Cases

Apexification



Pulp necrosis on #21 of 8 year-old boy took place by trauma



About 1 year after Metapex treatment

Root Resorption



Internal resorption on disto-lingual root



Root perforation by inflammatory resorption



Metapaste Calcium Hydroxide with Barium Sulfate

Advantages

- Easy cleaning and removing with good water solubility
- Excellent antibacterial effect and radiopacity
- Premixed paste
- Syringe type for easy delivery of the paste into the canal
- Disposable tips for prevention of cross-contamination

Composition

- Calcium Hydroxide, Barium Sulfate, Poly Propylene Glycol

Applications

- Weeping canal
- Formation of a hard tissue barrier(Apexification)
- Temporary root canal filling
- Internal & external root resorption

Components

- 2.2g paste in a syringe (2 syringe packing available)
- Disposable tips
- One ring rotator for direction control of the tip
- Dimension : 228×61×22(㎜)
- Weight : 46g

Shelf life

- Two years from the production date.

Clinical Cases

Apexification



Before treatment

– Large apical foramen with an incomplete apex

– Note the root resorption on the lateral surface



Metapaste filling



Three months later

– After removal of the paste, it shows a formation of the apical barrier



Six months later

– Excellent healing without further root resorption



To locate real apical foramen

– About 1-2 months after, X-ray shows exactly where the real apical foramen is



ADSEAL Resin Based Root Canal Sealer

Advantages

- Excellent biocompatibility
- Easy to mix paste-paste
- Hermetic sealing ability
- Nonstaining to the teeth
- Insoluble in tissue fluids
- Good radiopacity

Applications

- Permanent root canal sealing
- Thermal obturation

Components

- 13.5g dual syringe
- Base 9g (Epoxy resin, Calcium phosphate)
  Catalyst 4.5g (Amines, Bismuth subcarbonate)
- Spatula
- Mixing Pad
- Dimension : 55x180x40(mm)
- Weight : 98g

Composition

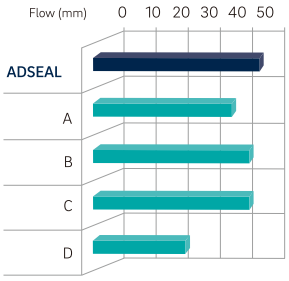
- Base-Epoxy oligomer resin, Ethylene glycol salicylate, Bismuth subcarbonate
- Catalyst-Poly butanediol aminobenzoate, Calcium Phosphate, Bismuth subcarbonate

Shelf Life

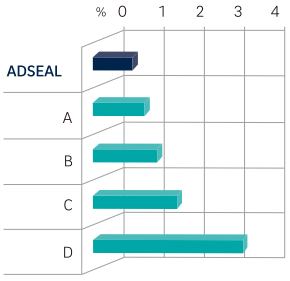
- Two years from the production date.

Physical and Chemical Properties

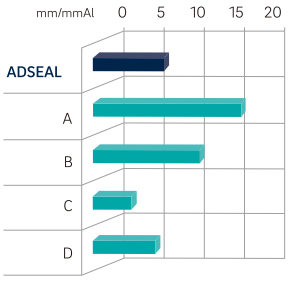
- Flowability



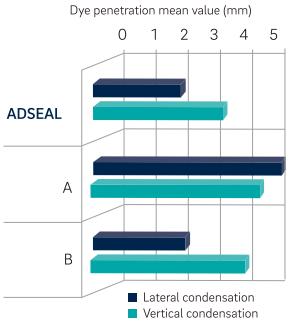
- Solubility



- Radiopacity



- Material Properties



- Working Time : 35 Minutes at 23 C (73 F)
- Setting Time: 45 Minutes at 37 C (99 F)
- Film Thickness: 3.3 ㎛



CeraSeal Calcium Silicate-based Bioceramic Sealer

Advantages

- Calcium silicate-based bioceramic sealer
- Premixed: easy to use
- Anti Microbial (pH 12.73)
- High biocompatibility
- Harmless to human body
- No shrinkage and expansion
- Perfect sealing ability
- Proper setting time
- Prevent from wash-out phenomena
- Excellent Radiopacity: 8mm Al

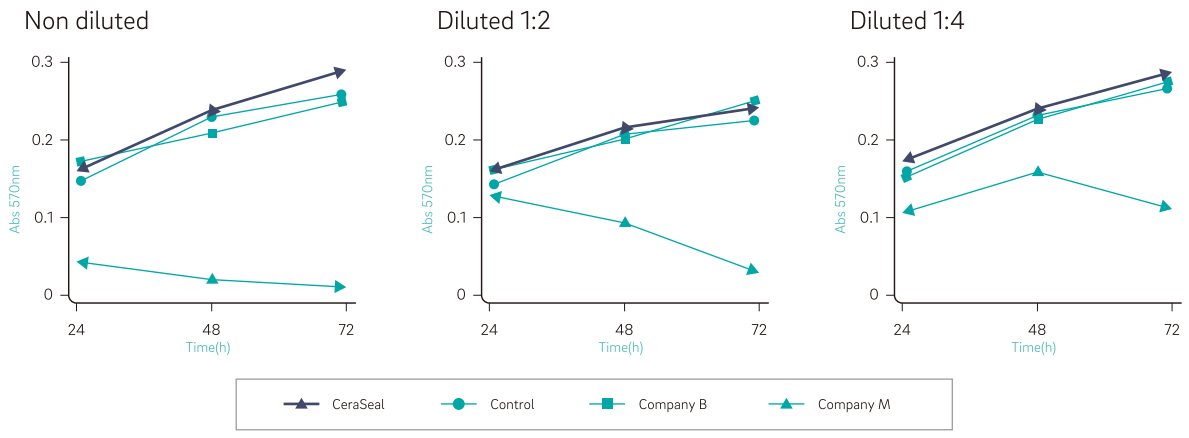
Specifications

- **Setting time**
  - 3.5 hour
- **pH**
  - 12
- **Radiopacity**
  - 8mm
- **Flowability**
  - 23mm

Components

- 2g Pre-mixed syringe x 1EA
- Intra canal tips x 15EA

Test Result



- This test's result shows and proves that even if CeraSeal has high pH (12.73) as time goes by it induces cells' proliferation. So it's harmless to human body, also it has excellent biocompatibility understandably.



Guttasil Flowable GP sealer for Cold obturation

Advantages

- Excellent adhesive ability to GP
- Amazing Flowability
- No shrinkage
- Remarkably simple use
- Economical tips

Components

- **Guttasil**
  - Guttasil Dual syringe X 1EA
  - Mixing tip (Endo tips) X 12EA
  - Mixing pad X 1EA
  - Spatula X 1EA
- **Guttasil Refill**
  - Guttasil dual syringe X 1EA

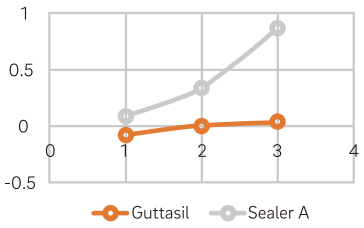
Specifications

- **Setting time**
  - 25 min
- **Working time**
  - 4 min
- **Film thickness**
  - 20㎛

Test Result

- Guttasil, Gutta-percha based sealer, was created to resolve issues we had with other root canal sealers-dimensional change. Because of the consistent changes in dimensions, it didn't bond strongly to GP and dentin, making it difficult to perform one cone technique.

Shrinkage





MD-Chel Cream EDTA Cream for Root Canal Cleaning and Preparation

Advantages

- Removal of inorganic substances by chelation (EDTA-Ca 2+)
- Easier filing with lubricating action
- Produces the cleanest canal wall after smear layer removal

Applications

- Root canal preparation with files and reamers
- Presence of calcifications in the canal
- Narrow canals in posterior teeth
- Smear layer removal

Components

- MD-ChelCream 7g(5.4㎖)×2
- Disposable tips
- Dimension : 186×45×30(㎜)
- Weight : 59g

Composition

- EDTA, PEG

Shelf Life

- Two years from the production date.



MD-Cleanser EDTA Solution

Advantages

- Removal of inorganic substances by chelation (EDTA: Ca^{2}+)
- Easier instrumentation by softening dentin canal wall
- Produces the cleanest dentinal walls after smear layer removal

Applications

- Presence of calcification in the canal
- Narrow canals on posterior teeth
- Smear layer removal

Components

- MD-Cleanser : 100 ㎖
- 1cc syringe
- Disposable tips
- Dimension : 106 x 50 x 53 mm
- Weight : 138g

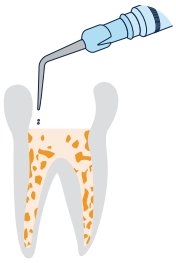
Composition

- EDTA, Water, Ammonia water

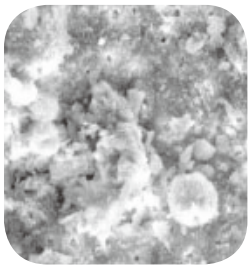
Shelf Life

- Two years from the production date.

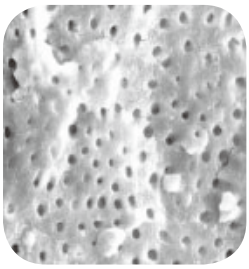
Clinical Case



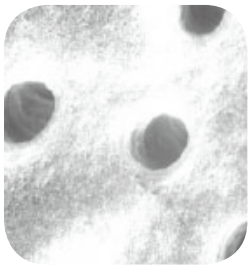
Application method



After root canal preparation



After MD-Cleanser application (x1000)



After MD-Cleanser application (x7000)

New

Better result with EQ-S

Go to page 26



NexPost Fiber post

Advantages

- Radiopaque
- Translucent
- Opitimal flexural strength(close to dentin)
- Excellent light translucency for efficient light cure deep into the root canal

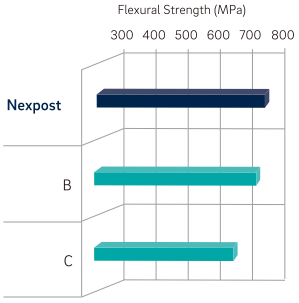
Composition

- Glass Fiber
- Bis-GMA based resin

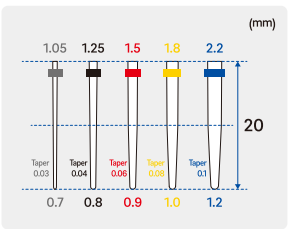
Components

- NexPost Full Kit
  - Drill x 5EA, Post 5size 25EA (1.05, 1.25, 1.5, 1.8, 2.2)
- NexPost Small Kit
  - Drill x 3EA, Post 3size 15EA (1.05, 1.25, 1.5)
- NexPost Refill
  - Post x 5EA
- NexPost Drill Refill
  - Drill x 1EA

Strength test



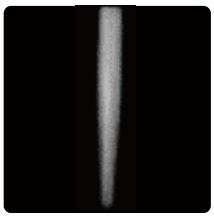
Sizes



Physical and Chemical Properties

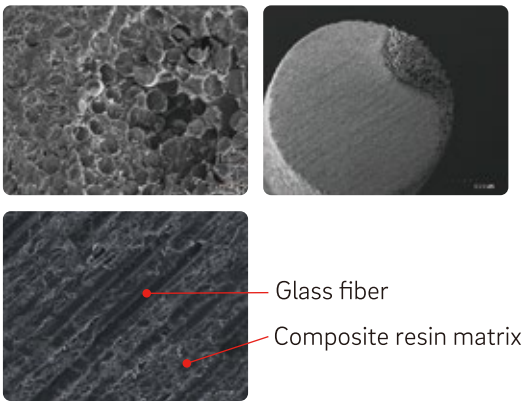


Light Transmission



Radiopacity

Scanning Electron Microscope



Shelf Life

- Three years from the production date.



NexCore Dual-cured core build-up Material

Advantages

- Suitable viscosity and flowability for post cementation and core build-up
- Dual curing: Light-curing and self-curing are possible stress free from polymerization failure of resin
- Biocompatibility (ISO10993)
- Easy to mix by auto-mixing type, Direct injection: Intraoral-Tip, Endo-Tip
- Radiopaque
- 3 Shade (Tooth, White: Ceramic restoration Blue: Metal restoration)
- Similar cuttability like dentin (Flexural modulus: NexCore 14.2㎬)

Applications

- Post adhesions and core build-up in restorations

Components

- NexCore Cartridge 50g paste 1ea, Automix-tip 30ea, Intraoral-tip 30ea
- NexCore Cartridge Refill 50g paste 1ea (Shade: Tooth, White, Blue)
- NexCore Dual Syringe 9g paste 2ea, Automix-tip 20ea, Intraoral-tip 10ea, Endo-tip 10ea
- NexCore Dual Syringe Refill 9g paste 1ea (Shade: Tooth, White, Blue)

Shelf Life

- Two years from the production date

Physical Properties

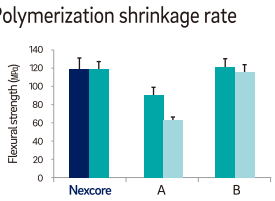
- **Composition**
  - Barium glass, Ytterbium trifluoride, Fumed silica Bis-GMA, TEGDMA
- **Physical Properties**

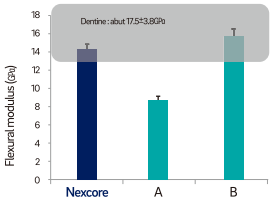
Working time	1:50 ~ 2:20 min
Setting time	4:00 ~ 5:00 min (Self-cure) 20 ~ 40 sec (Light-cure)
Flexural strength (light curing)	115.52 ㎫
Water Sorption, Solubility	16.5/ 2.3 ㎍/㎟
Radio-opacity	Optical density was equivalent with optical density at 4.2mm aluminum step wedge
Shade and color stability	No change in color and identical to the shade guide.

* Tested in accordance with ISO 4049

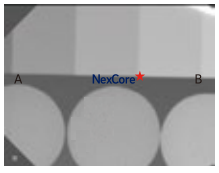
- **Flexural strength, modulus**

Polymerization shrinkage rate

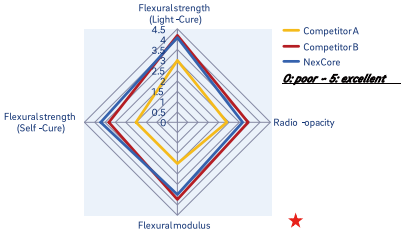




- **Radio-opacity**



- **Compilation of physical properties parameter**



ENDODONTIC EQUIPMENT

[en-doh-don-tik] [ih-kwip-muh-nt]

noun:

medical devices used for the diagnosis and treatment of diseases of the dental pulp.



"I've tried them all and the Meta Biomed Apex Locator stands out as the most user-friendly, reliable and accurate apex locator made today. It is indispensable in my hands. And I l ove the Meta Biomed obturator. Cordless, streamlined and reliable. No bells and whistles. The Meta Biomed Obturator makes my warm vertical obturation simple and efficient."

— Rich Mounce, DDS

⚠ **WARNING :** This product can expose you to chemicals including Lead and Lead Compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

i-Root is the 5th generation Apex Locator by dual frequency type. i-Root can measure the apical constriction exactly.



i-Root Electronic Apex Locator

Advantages

- Best accuracy in any root canal condition (Dry, Bleeding, Wet, Saline, EDTA, NaOCl or Chlorhexidine etc...)
- Simultaneous visual and sound measurement
- Color display
- Stylish and ergonomic design
- Simple and easy to use
- Self test for the system checking
- Auto power off function
- Stable and durable in wide range of condition
- Computer monitoring & Patient Management

Contents

- 1 i-ROOT main unit
- 1 Probe cord
- 1 File holder A
- 2 File holder B
- 5 Lip clips

	Battery	Monitor connection
i-Root S	Rechagable Battery	O
i-Root A	Rechagable Battery	X
i-Root 100	AA Battery(3ea)A	X

Specifications

- **Dimensions**
  - W110 × D100 × H117㎜
- **Screen**
  - W79 × D70㎜
- **Battery**
  - Lithium-Ion, DC8.2V 2200mAh
- **Continuous use**
  - 60 hours
- **AC-Adapter**
  - AC 100 ~ 240V, (50 ~ 60Hz)
- **Weight**
  - 390g



Available in the certain countries.

Accuracy guaranteed by the latest multiple frequency technology meets hand-held size for the best efficiency of your endodontic treatment.

Rootor Electronic Apex Locator

Advantages

- Accuracy in any root canal conditions (Dry, bleeding, wet, saline, EDTA, NaOCl, Chlorhexidine and etc)
- Color display
- Stylish and ergonomic design
- Auto power-off for saving battery life
- Stability and measurement reliability

Contents

- 1 ROOTOR main unit
- 1 Probe cord
- 1 File holder A
- 2 File holder B
- 5 Lip clips

Specifications

- **Rated voltage**
  - DC 4.5 V
    (Alkaline battery size AAA DC1.5V x 3ea)
- **Input current**
  - less than DC 60mA
- **Power consumption**
  - less than 0.27 VA
- **Patient auxiliary current**
  - less than AC 10uA



ES-100 Endodontic Micro Motor

Advantages

- **Excellent Hand-piece**
  - Chemical Resistant
  - Durable Contra-angle with Small head
- **Powerful Performance**
  - RPM: 250~800 RPM(16:1)
  - Torque: 0.6~6.4 NCM
  - 10hrs of working time(2200mAh)
- **Torque Auto Reverse**

Specifications

- **Control Unit**
  - Rated Input : 7.2V, 1.2A
  - Dimension : ø16.7 x L63㎜
  - Weight : 443g

Contents

- 1 Control unit
- 1 Hand piece
- 1 Contra angle
- 1 AC adapter

Auto Reverse

AUTO REVERSE



When the preset torque is reached[1], the handpiece drive runs in an anti-clockwise direction[2], freeing the file. Then drive then stops[3].

Auto Forward

AUTO REVERSE



When the preset torque is reached in Auto Forward mode[1], the file automatically turns in the opposite direction[2], freeing the file, then continues rotating in a clockwise direction[3]



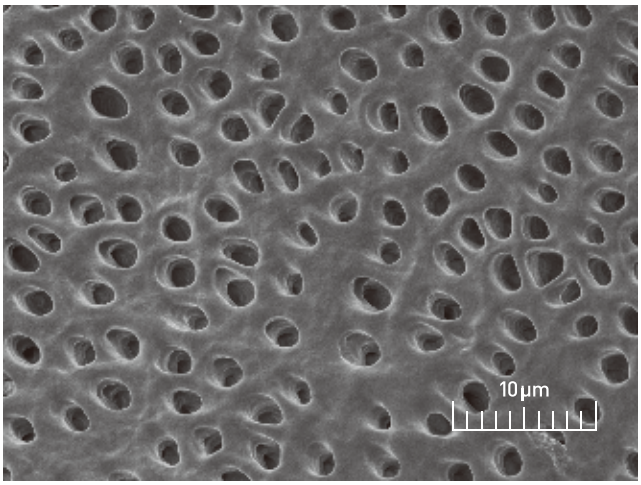
EQ-S Cordless Sonic Endo Irrigator

Advantages

- Excellent cleaning efficiency
- Less pressure toward the apical foramen
- Special shaped and flexible tip
- Cordless
- Ergonomic design
- Light body
- Easy operation

Powerful Cleaning

- After the usage of EQ-S with MD-Cleanser



Specifications

- **Dimension**
  - W24 x H25 x L183 (including tip)
- **Weight**
  - 43g
- **Tip Size**
  - Small(15/02, White)
  - Medium(25/02, Red)
  - Large(35/02, Green)
- **Tip Length**
  - 23mm
- **Tip Length mark**
  - 18mm, 20mm
- **Battery**
  - Alkaline AA Battery (Not included)
- **Operation time**
  - 9 hours



GENESYS Motorized Cordless Obturator

Advantages

- Convenient cordless device
- Cordless & electric motorized filling system
- New cartridge needle to refill GP pellet
- 360° rotation at cartridge needle
- High capacity lithium-ion battery
- Simple, easy & quick to use

Specifications

Pack

- **Dimension**
  - 153㎜ x 27㎜ x 25㎜ (W x L x H)
- **Weight**
  - 90g (Including battery)
- **Battery**
  - 3.6Vdc/1900mAh
- **Range of setting temperature**
  - 140 ~ 300℃
- **Auto shutoff**
  - 5 minutes
- **Battery**
  - Lithium-ion battery
- **Charger**
  - Input : 9.0V
  - Single charger size : 165㎜ x 80㎜ x 47㎜ (W x L x H)
  - Twin charger size : 230㎜ x 80㎜ x 47㎜ (W x L x H)

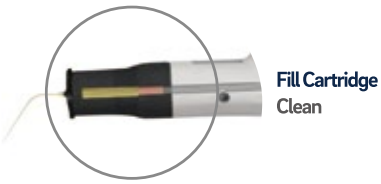
Fill

- **Dimension**
  - 223㎜ x 27㎜ x 26㎜ (W x L x H)
- **Weight**
  - 177g (Including battery)
- **Battery**
  - 3.6Vdc/1900mAh
- **Range of setting temperature**
  - 140 ~ 200℃
- **Auto shutoff**
  - 5 minutes
- **Adapter**
  - Input : 100-240V, 50/60 Hz
  - Output : 9.0V, 2.0 A
  - Size : 84㎜ x 46㎜ x 32㎜



Not available in North America

The Best Choice for Continuous Wave Obturation



Unique Structure of EQ-V Fill



EQ-V Fill Kit (Refillable)



EQ-V Pack Kit

EQ-V Warm Gutta Percha Obturation

Advantages

- Chemically Resistant & Ergonomically Designed Body (remain intact after 1week of immersion in cavicide)
- Durable & Flexible GP Cartridge
- Easy maintenance due to unique structure
- Outstanding Heating Performance (Fill: 35Sec to reach 200C, Pack: Instantly reaches set temperature)

Specifications

Fill

- **Weight**
  - 177g (Including Battery)
- **Battery**
  - 3.6Vdc / 1900mAh
- **Setting Temperature**
  - 160 or 200℃
- **Auto Shutoff**
  - 5 minutes

Pack

- **Weight**
  - 90g (Including Battery)
- **Battery**
  - 3.6Vdc / 1900mAh
- **Setting Temperature**
  - 180 or 230℃
- **Auto Shutoff**
  - 5 minutes

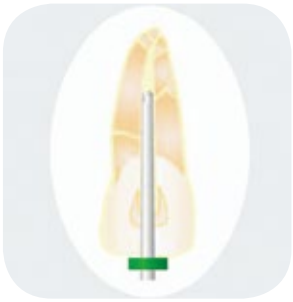
Type	Contents											
	Fill Unit (Refill)	**Pack Unit**	**Battery**	**Single Charger**	**Dual Charger**	**Pack Tip** (50/.04, 60/.05)	**Refill Cartridge** (25G) (6pcs/ 1pack)	**Bending Tool**	**Cleaning Tool**	**AC Adapter**	**Power Cord**	**GP bar** (100pcs/ bottle)
EQ-V Full kit (Refill)	○	○	○		○	○	○	○	○	○	○	○
EQ-V Fill kit (Refill)	○		○	○			○	○	○	○	○	○
EQ-V Pack Kit		○	○	○		○				○	○	

Warm Gutta Percha Obturation Tech Guide

Downpack



1. Fit a master apical cone that matches the taper of the canal being obturated and check it makes a tug back.



2. Marked length select a Pack Tip and plugger 4~6mm shortly inserted than working length.



3. Cement master cone to 3mm, insert it toroot canal and cut the excess over the orifice using the Pack Tip with gutta percha to 4~6mm short of the working length.



4. Harden the melted gutta percha with pre-selected plugger. Now apical area & accessory canal are perfectly obturated.

Backfill



5. After inserting the Fill Cartridge into the Root Canal, wait for 5 seconds after inserting Gun Needle to root canal.



6. Pull the trigger slowly and fill the gutta percha up to root canal. Fill Cartridge would be pushed by filled gutta percha naturally.



7. Harden the heated gutta percha with bigger plugger.



8. Now, the entire root canal is fully obturated.

Clinical Cases



Mandibular right 1st molar, mesial 4 orifices



Mandibular left 1st molar, 'S' curved distolingual canal



Mandibular left 2nd molar, C-shape canal

Courtesy of PS Kim, DDS, MSD, Ph D.



EQ Condenser Flexible Hand Plugger

Advantages

- Flexible NiTi tip
- Smooth edge and flat end
- Practical length marking
- Excellent chemical resistance
- Lightweight
- Anti-crack and rotation prevention
- Color coded

Specifications

- NiTi tip

Marking	Working length	Taper
N40	0.40mm	0.02
N50	0.50mm	0.01
N60	0.60mm	0.01

- SUS tip

Marking	Working length	Taper
N80	0.80mm	0.04
N100	1.00mm	0.02
N120	1.20mm	0.01



Glare Polywave Curing Light

Advantages

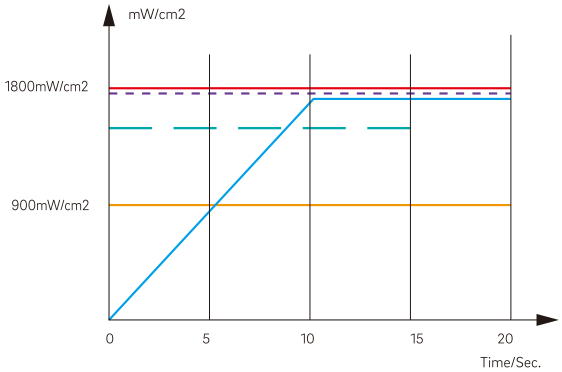
- High Intensity: 1800mW/cm²
- Focused light: deep, uniform curing
- Dual wavelength LED: 405&460nm
- 5 types of curing: High, Low, Soft start, Pulse, Ortho mode
- Slim head& 330° head twist
- Angled hand piece
- OLED screen
- Big capacity battery: 2600mAh
- Interchangeable battery pack

Specifications

- **Wave length**
  - 400~490(nm)
- **Screen**
  - OLED
- **Power source**
  - Lithium-ion-battery 2600mAh
- **Light source**
  - High power dual wavelength LED
- **Weight**
  - approx. 130g

5 types of light curing

- User can select curing type such as High, Low, Soft start, Pulse mode. Curing time also can be adjusted.



— High mode
Quick polymerization with high intensity.

— Low mode
Slow plolymerization with low intensity.

— Soft start mode
Special mode to avoid polymerization shrinkage.

--- Pulse mode
Special mode to avoid polymerization shrinkage.

-- Ortho mode
Special mode for bracket attachment.
5cycles of 2sec curing followed by 1sec rest.

RESTORATIVE

[ri-stawr-uh-tiv, -stohr-]

noun:
the branch of dentistry that deals with the restoration of diseased, injured, or abnormal teeth to normal function, as by crowns.

I have been using Meta Biomed products in my practice for a number of years and they are always easy to use. Meta Biomed provides quality products that make treatment on my part easier and more predictable.

— Gregori M. Kurtzman, DDS





Biner LC Light-curing Type Cavity Liner

Advantages

- Excellent biocompatibility with dentin and pulp
- Light curing type cavity liner, cure extremely hard
- Chemically bonds to adhesives and composites
- Insoluable in water and oral fluids
- Radiopacity
- Flow-on-demand handling and easy dispensing
- Heating Barrier

Applications

- Protect pulp of the tooth
- Lining under all filling materials
- Protection when applying the total etch technique

Composition

- Hydroxyapatite, UDMA, Photoinitator
- Barium aluminium silicate

Components

- Biner LC 2g X 2 Syringes
- 10ea disposable tips

Physical properties

- **Flexural strength**
  - More than 100 MPa
- **Sensitivity to ambient light**
  - Homogeneous for 60s
- **Linear Expansion**
  - 2~3 %
- **Radiopacity**
  - Yes
- **Depth of Cure (40 sec.)**
  - 2mm

Shelf Life

- Three years from the production date.



Meta Etchant 37% Phosphoric Acid

Advantages

- Easy dispensing and application
- No residue, rinse out completely
- Thixotropic characteristics(not runny)

Applications

- Conditioning of surface for dentine and enamel with composite and inlay / onlay

Components

- 3g X 3Syringes, 20 tips

Composition

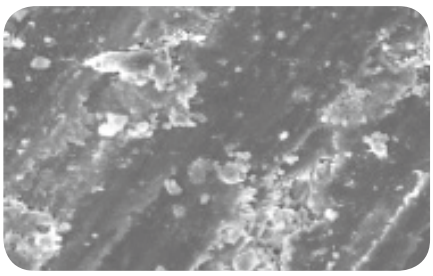
- Phosphoric acid, H2O, Xanthan gum

Shelf life

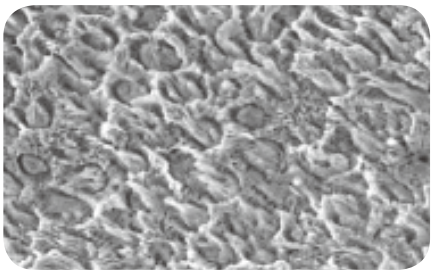
- 3g X 3Syringes, 20 tips

Clinical Case

- Enamel SEM



Before Meta Etchant application(x2000)



After Meta Etchant application(x2000)



Meta P&Bond 5th Generation Bonding System

Advantages

- Superior bonding strength
- 5th Generations Adhesive
- One step priming and bonding
- Ethanol base adhesive
- Wet bonding type

Applications

- Bonding for direct composite, porcelain, composite, metal repair, set amalgam, post, porcelain veneer, amalgam and indirect bonding procedures with Metacem adhesive resin cement.

Components

- Meta P&Bond 5g
- Micro brush 10EA

Composition

- Bis-GMA, PMGDM, 2-Hydroxyethylmethacrylate, Ethyl alcohol

Physical Properties

- Dentin shear bonding strength 10.75MPa
- Enamel shear bonding strength 30.76MPa

Shelf life

- Two years from the production date



Unidose Type is Available

Nexcomp Hybrid Composite Resin

Advantages

- Low 1.6% shrinkage for superior marginal integrity Various shade
- Filled with Various nano sized filler for excellent polishability.
- Optimum handling - Excellent Sculptability for restoring natural shape and function.
- Non-Slumping. Non-Sticky

Applications

- Class Ⅰ, Ⅱ, Ⅲ, Ⅳ, Ⅴ restorations
- Diastema closures
- Direct veneers
- Composite and porcelain repairs

Components

- Nexcomp Kit
  - 4g x 7 Syringe (A1, A2, A3, A3.5, B2, A2E, B2E)
  - Meta P&Bond 5g
  - Meta Etchant 3g
- Nexcomp Refill
  - 4g x 1 Syringe (A2E, B2E, A1, A2, A3, A3.5, A4, B1, B2, B3, C2, C3, D2, D3, TL, WT, OP, OA2, OA3)g

Composition

- Bis-GMA, UDMA, Bis-EMA
- Barium aluminium boro silicate

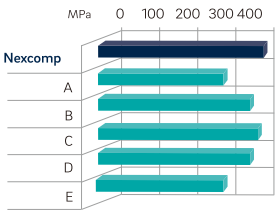
Shelf life

- Three years from the production date.

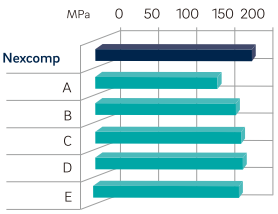
	Nexcomp
Principle organic component of polymer base	Bis-GMA, Bis-EMA, Urethane dimethacrylate, Triethylene glycol dimehacrylate
Range of dimensions of inorganic filler particles	0.01 to 0.7 ㎛
percentage by volume of total inorganic fillers	wt 75%
Recommended external energy source	Specification required of Light curing device: usual dental halogen/LED lamps with light intensity of more than 400㎽/㎠ and wavelength range of 430~480㎚

Physical and Chemical Properties

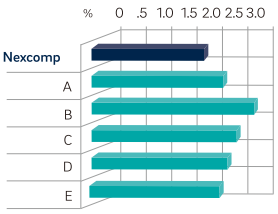
• Compressive Strength



• Flexural Strength



• Polymerization Shrinkage Rate



Clinical Cases

• Before


▲ Mesial fracture


▲ Cervical abrasion


▲ Class I cavity

• After


▲ complete Necomp restoration


▲ After restoration


▲ Restoration with Nexcomp



Nexcomp Flow Hybrid Flowable Composite Resin

Advantages

- Low viscosity, light-cured, radiopaque flowable composite resin.
  - Filled with Various nano sized filler for excellent polishability.
  - Excellent Radiopacity
  - Available in 14 shades including opaque and translucent
  - No slumping and running

Applications

- Restoration of invasive cavity
- Pits and fissure sealing
- Base and Liner for direct restoration
- Repair acrylic temporary materials
- Repair of esthetic indirect restorations

Components

- Nexcomp Flow set
  - 2g X 5 syringes(A2, A3, A3.5, B2, B3), 20ea disposable tip
- Nexcomp Flow Refill
  - 2g X 2 syringes(A1, A2, A3, A3.5, A4,B1, B2, B3, OA2, OA3, C2, D2, WT, TL), 10ea disposable tip

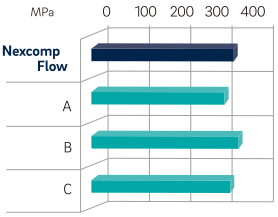
Composition

- Bis-GMA, UDMA, Bis-EMA TMPTMA
- Barium aluminium boro silicate

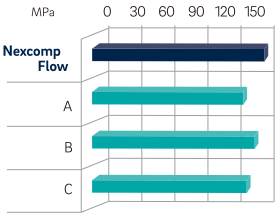
	Nexcomp Flow
Principle organic component of polymer base	Bis-GMA, Bis-EMA, Urethane dimethacrylate, Triethylene glycol dimehacrylate
Range of dimensions of inorganic filler particles	0.01 to 0.7 ㎛
percentage by volume of total inorganic fillers	wt 75%
Recommended external energy source	Specification required of Light curing device: usual dental halogen/LED lamps with light intensity of more than 400㎽/㎠ and wavelength range of 430~480㎚

Physical and Chemical Properties

- Compressive Strength



- Flexural Strength



Shelf life

- Three years from the production date.



Metacem Dual-Cured Resin Cement

Advantages

- Easy to use for cosmetic indirect restorations.
- Provides high resistance to compressive force.
- Provides a dual-cure for highly shaded, thick or
- opaque cementation.
- 5 shades correspond with shade guide.
  [A1, A3, B2, TL(Translucent white), OP(Opaque)]

Applications

- Crowns & Bridges (ceramic, composite, porcelain)
- Inlay/Onlay cementation
- Bonding for porcelain veneers

Components

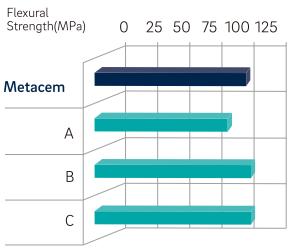
- 1. Metacem set
  - 2 Dual syringe(A3, Translucent white shade, 9g/ea)
  - P&Bond 5g
  - Etchant 3g
  - 20 Mixing tips
  - 20 Etchant disposable tips
  - Spatula
  - Mixing pad
  - 10 Adhesive brush
- 2. Metacem Refill
  - 1 Dual syringe(A1, A3, B2, Translucent white, Opaque, 9g/ea)

Composition

- Base-Bis-GMA, DHEPT,
- Barium aluminium boro silicate
- Catalyst--Bis-GMA , TEGDMA,
- Barium aluminium boro silicate

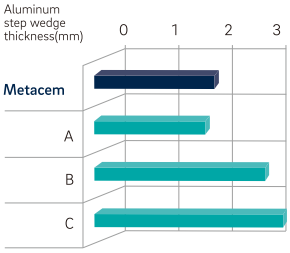
Physical and Chemical Properties

• Flexural Strength



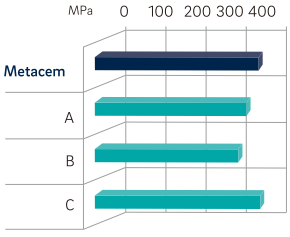
Working time 2 min
Setting time 5 min
Flexural strength 99 MPa
Radiopacity 2.33mm Al/㎜

• Radiopacity



Film thickness <21㎛
Water absorption 29.3 ㎍/㎟
Water solubility 2.3 ㎍/㎟

• Compressive Strength



Shelf life

- Two years from the production date



MD-Temp Plus Hydraulic Temporary Restorative

Advantages

- Easy application and removal
- Hermetic seals the cavity
- Excellent stability when sets
- Proper crush strength

Applications

- Temporary cavity filling

Components

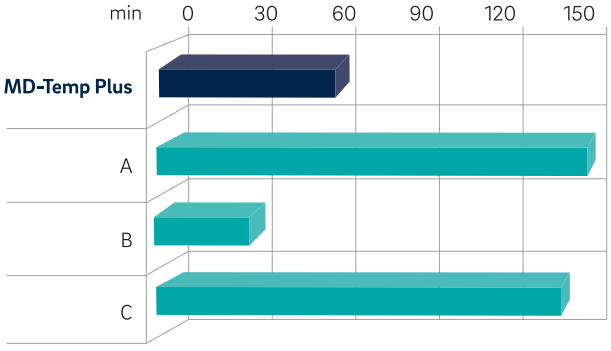
- White or Pink paste in a jar(40g)
- Dimension : 40 x 35 x 39(mm)
- Weight : 52.5g

Composition

- Copolymer
- Zinc oxide
- Calcium sulfate

Physical and Chemical Properties

- Setting Time



Shelf Life

- Three years from the production date



NexTemp HV / NexTemp LC Light-curing Type Temporary Filling

Advantages

- High elasticity
- Easy application
- Tightness for margin sealing
- Easy removal

Applications

- Temporary restoration of prepared cavity(1~6days)
- Temporary filling sealing of cavities

Component

- NexTemp HV : 3g x 3 Syringes (TL, Blue)
- NexTemp LC : 2g x 3 Syringes, 10 ea disposable tip (TL, Blue, Yellow)

Shelf life

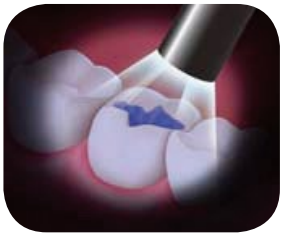
- Nextemp HV : Two years from the production date
- Nextemp LC : Three years from the production date

How to Use


1. Prepare


2. Clean and dry


3. Apply


4. Light-cure


5. Polish


6. Remove



NETC Non-Eugenol Temporary Cement

Advantages

- Paste-paste tube type
- Working time : 1.5 min
- Setting time : 6min
- Especially suitable for patients who are sensitive to eugenol.

Applications

- Temporary cementation of crown&bridges

Component

- Tube Type : Base 40g, Catalyst 14g, Mixing Pad
- Dual Syringe Type : 11g x 2ea, Mixing tip x 2ea, Cap x 2ea, Mixing Pad

Composition

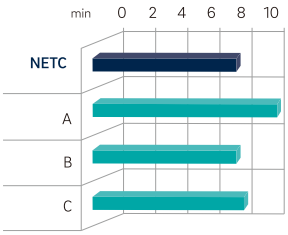
- Base-Zinc Oxide, Mineral oil
- Catalyst-Rosin, Nonanoic acid

Shelf Life

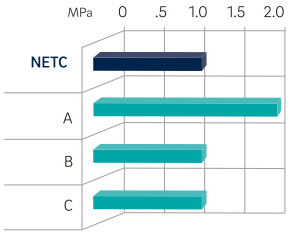
- Two years from the production date

Physical and Chemical Properties

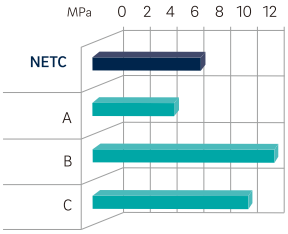
- Setting Time



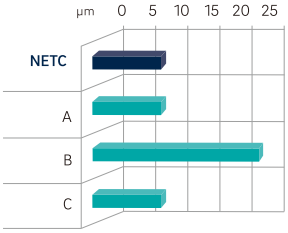
- Adhesive Strength



- Compression Strength



- Film Thickness



NETC complies with the requirments of ISO 3107 (Type Ⅰ , Class 2B)



MD-flex Polyvinylsiloxane Impression Material

Advantages

- Accurate impression without bubbles because of hydrophilic property.
- Gypsum model will be effectively reproduced without transformation due to an excellent reproducibility and volume stability.
- Biocompatibility. (ISO10993)
- This product is compatible with other Polyvinylsiloxane Impression Materials. Easy to mix by auto-mixing type.

Applications

- Impression of crown or bridge, partial denture.
- Cavity impression of veneer, inlay, onlay Impression of crown or bridge, partial denture

Shelf Life

- Two years from the production date

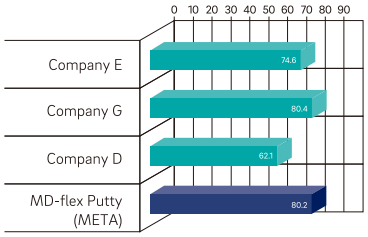
Components

Type	Contents
Putty	Base 450g, Catalyst 450g Measuring spoon 2ea
Heavy	50ml Cartridge x 2ea, Automix tip 6ea
	Bulk Package 4 and 10 Cartridge (without mixing tips)
Mono phase	50ml Cartridge x 2ea, Automix tip 6ea, Intra oral tip 6ea
	Bulk Package 4 and 10 Cartridge (without mixing tips, oral tips)
Light	50ml Cartridge x 2ea, Automix tip 6ea, Intra oral tip 6ea
	Bulk Package 4 and 10 Cartridge (without mixing tips, oral tips)

Physical Property

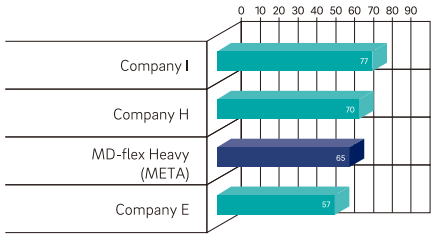
• Putty

Hardness (Shore A)

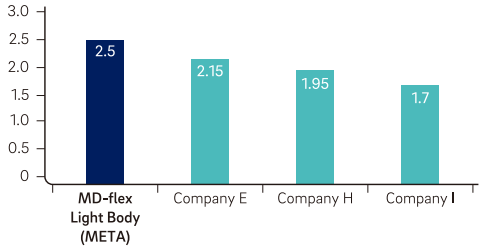


• Heavy

Hardness (Shore A)

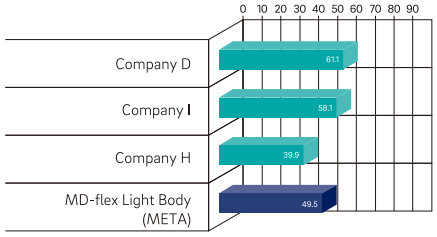


Distortion Rate

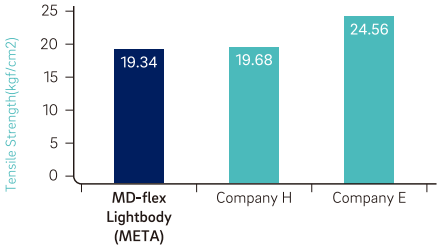


• Light

Hardness (Shore A)

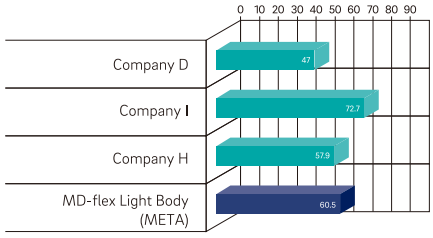


Tensile Strength

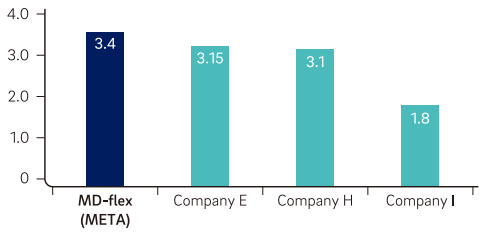


• Monophase

Hardness (Shore A)



Distortion Rate





NexSil Bite Bite Registration

Advantages

- Fast setting material offers a rock hard set creating excellent occlusal records
- Easy to trim and grind due to the material's high final hardness of 90 Shore-A and high fracture toughness
- Delivers excellent results when capturing images with intra-oral scanning devices
- Biocompatibility (ISO 10993)
- Easy to mix by auto-mixing type

Applications

- Used to create occlusal in the mouth

Components

- Cartridges 50 ml x 2

Physical properties

- **Work time(23℃)**
  - 40 seconds
- **Set time(23℃)**
  - 90 seconds
- **Shore A**
  - 90

Shelf life

- Three years from the production date



NexSil Soft Transparent Silicone

Advantages

- Light cured after transparent silicone material
- Excellent elastic recovery and tear strength after hardening
- Easy to remove
- Accurate modeling without bubbles on the surface

Applications

- Confirmation of occlusal status
- Transfer key for adhesion of calibration bracket
- Matrix for light curing

Components

- Cartridges 50 ml x 2

Physical properties

- **Work time(23℃)**
  - Within 45seconds
- **Set time(23℃)**
  - 5 min
- **Shore A**
  - 54

Shelf life

- Two years from the production date

REGENERATIVE

[ri-ri-jen-er-uh-tiv, -uh-rey-tiv]

noun:
the branch of dentistry that deals with the regeneration of jaw bone and tissue to correct the damage caused by periodontal disease in order to support dental implants and/or restore tooth strength.



DM Bone Silicon Ion Containing 60% HA, 40% β-TCP

Advantages

- Silicon ion containing porous Hydroxyapatite (Si-Content:Avg.0.6 wt%)
- Optimum balance between HA and β-TCP in the ratio(%), 60:40
- Silicon ion technology speeds up the Bone Regeneration & Heal Activation
- Outstanding Biocompatibility(No Biological Rejection, No Disease Transmission)
- Excellent Osteoblastic Activity with wide surface area:72% Porosity

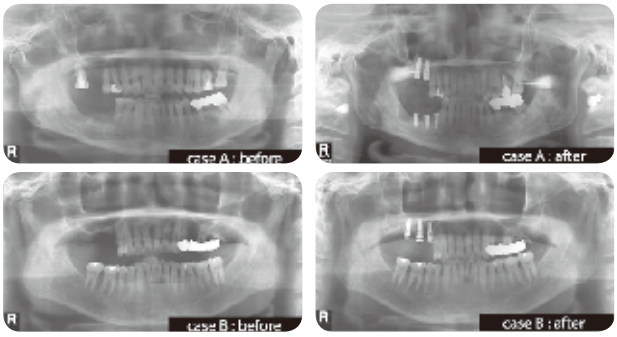
Applications

- Periodontal defects
- Intrabony defects
- Ridge augmentation
- Extraction sites(Implant preparation/placement)
- Sinus lift
- Cystic cavities

Package Specifications (1vial / box)

Size	Weight					
0.3 ~ 0.5mm	0.25g	0.5g	1.0g	2.0g	5g	10g
0.5 ~ 1.0mm	0.25g	0.5g	1.0g	2.0g	5g	10g
1.0 ~ 2.0mm	0.25g	0.5g	1.0g	2.0g	5g	10g

Implant Case



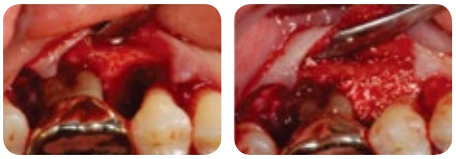


Fig 1. Clinical and radiographic view during surgery. Intrabony defect (Left), BoneMedik-DM placed into intrabony defect.

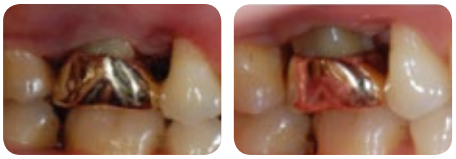


Fig 2. Clinical view Pre-operative (Left) and Six months post-operative (Right) clinical

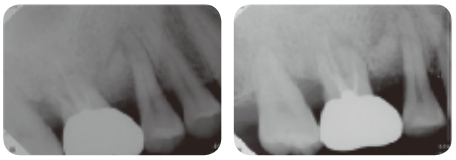


Fig 3. Radiographic view of test group. Pre-operative (Left) and six months post-operative radiographic (Right)



Fig 4. Radiographic view of control group Pre-operative (Left) and six months post-operative radiographic (Right)



Sorbone 100% β-TCP

Advantages

- Excellent osteoconductivity
- Speed up the bone regeneration & heal activation
- Outstanding biocompatibility
  (No biological rejection, No disease transmission)
- Accurate and problem-free implantation
- Easy handling
- Porosity: 55~60%

Applications

- Periodontal defects
- Intrabony defects
- Ridge augmentation
- Extraction sites(Implant preparation / placement)
- Sinus lift
- Cystic cavities

Implant Case

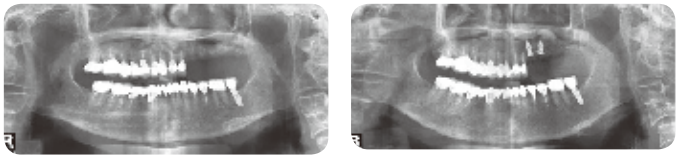


Fig. 1. Radiographic view of pre-implantation (Left),
and post-implantation (Right)

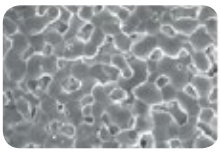
SEM Observation of Sorbone



Chip shape of Sorbone



Internal structure of Sorbone



Sorbone surface: Inter-connected nano and micro pores

Components

• Vial Type

Size	Weight			
0.3 ~ 0.5mm	0.25g	0.5g	1.0g	2.0g
0.5 ~ 1.0mm	0.25g	0.5g	1.0g	2.0g
1.0 ~ 2.0mm	0.25g	0.5g	1.0g	2.0g
2.0 ~ 4.0mm	0.25g	0.5g	1.0g	2.0g

• Syringe Type

Size	Weight			
0.3 ~ 0.5mm	--	--	1.0cc	2.0cc
0.5 ~ 1.0mm	0.25cc	0.5cc	1.0cc	2.0cc
1.0 ~ 2.0mm	0.25cc	0.5cc	1.0cc	--

GBR(Window Opening)



M · E · M · O

M · E · M · O

M · E · M · O



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