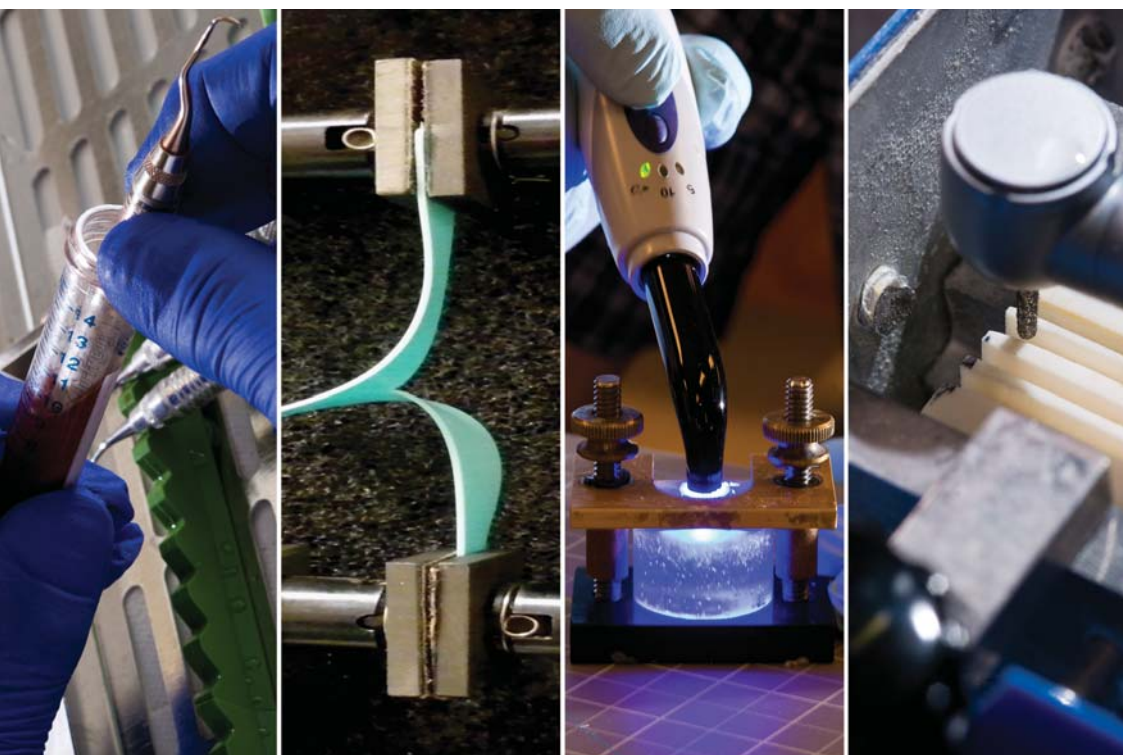


THE DENTAL ADVISOR™

Improving Patient Care Through Research & Education



Products that Stand Out in the Laboratory

This issue of THE DENTAL ADVISOR discusses several biomaterials and microbiology laboratory tests that can help assess clinical performance of dental products and equipment. Products which have achieved a favorable result in independent testing are featured.

November 2014

Vol. 31, No. 09

MAIN TOPIC

Products that Stand
Out in the Laboratory 2

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& Air Polishing System 10



www.dentaladvisor.com

RATINGS:

Excellent + + + + +
Very Good + + + +
Good + + +

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From the Desk of
Dr. Bunek, Editor-in-Chief

Our Lab Process: How products are put to the test

THE DENTAL ADVISOR continually tests products at a pre-market and post-market stage. Development of an ideal product that works well in a clinical environment is not an easy task. Many standard tests are available; however, our strength is in understanding how products need to perform in a dental professional's hands.

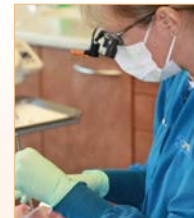
Both our biomaterials and microbiological laboratories consult weekly with our editorial board of practicing dentists to determine what tests are necessary to challenge product and equipment claims made by manufacturers. Using scientific methods as a base, clinical feedback and criteria are merged into relevant experiments that help all dental professionals make wise decisions.

Products are brought to our laboratories in two ways.



Scientific Hypothesis

A specific hypothesis is proposed and tested using ISO and ANSI test methods, and a research report is prepared. Products can be compared and tested against standards or competitive products.



Clinical Evaluation

Dentists may request performance studies on products we are currently clinically evaluating and test results are published in a clinical article. Translating the science is a publication of THE DENTAL ADVISOR which explains the clinical relevance of laboratory testing.

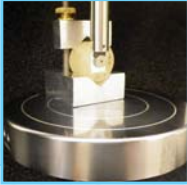


The following article describes test methods and discusses clinical relevance for testing. Results are often used to refine and improve products. The end goal is the creation of products and equipment that function at a high level of performance, are easy to use, and last over a long period of time.

BONDING AGENTS

Adhesive dentistry is rapidly evolving and products are being introduced to the market at an unprecedented rate. New adhesives have been developed in an attempt to achieve reliable and excellent adhesion of tooth substrate to resin and ceramic materials, producing less microleakage and increased retention.

TEST: Shear Bond Strength



Adhesion or **bond strength** of one material to another is often measured in shear using a standardized test with units of megaPascals (MPa). Bond strengths to enamel and dentin higher than 18 MPa are desirable. There are many versions of the test that utilize an anvil to load the side of a cylinder of material that is bonded at one of its ends to a substrate material. A commonly used version of this test is the Ultradent Shear Bond Test.



Bonding Agent	Shear Bond Strength, MPa	
	Enamel (Total Etch)	Dentin (Self Etch)
CLEARFIL Universal Bond (Kuraray America)	33	39
OptiBond XTR Self-Etch, Light-Cure Universal Dental Adhesive (Kerr Corporation)	31	44



OptiBond XTR Self-Etch, Light-Cure Universal Dental Adhesive

COMPOSITES

One measure of clinical success is restorations that do not fracture or chip over time. Flexural strength greater than 120 MPa is desirable.

TEST: Flexural Strength



Flexural strength describes the capacity of a material to resist failure in bending. Flexural strength is measured by placing a standardized bar of the material into a three-point bend test and loading it until it fails. The failure load indicates the Flexural strength. A Flexural strength higher than 120 MPa is desirable. Composite restorative materials must have acceptable Flexural strength and stiffness to support the significant loads associated with eating hard foods (e.g., nuts and hard candy) without fracturing.



Composite	Flexural Strength, MPa
Filtek Supreme Plus Universal Restorative (3M ESPE)	145
Synergy D6 (Coltene/Whaledent)	143

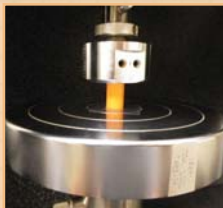
Flexural Strength



IMPRESSION MATERIALS

Elasticity of impression material is critical when removing an impression from the mouth. Dentists do not want distortion to occur when an impression is taken. A material should tolerate being pulled past undercuts and away from inter-proximal spaces without being permanently distorted or torn.

TEST: Elastic Recovery

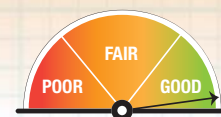


The property of **elastic recovery** determines permanent deformation to impression materials and is measured by performing a standardized compression test developed by the American Dental Association. The ADA recommends elastic recovery greater than 96.5% although elastic recovery higher than 99% is desirable. Elastic recovery is a material property which describes how completely a material returns to its original, unloaded shape and size after a load (e.g., compressive, tensile or torsional) is removed. Many impression materials have an elastic recovery of more than 99%.



VPS Impression Material	Elastic Recovery, %
Virtual XD (Ivoclar Vivadent, Inc.) (Light body)	99.2
Splash! MAX (Den-Mat Holdings, LLC) (Light body)	99.0

Elastic Recovery



COMPOSITES & CERAMICS

Poorly finished composite restorations can lead to plaque accumulation, gingival irritation, recurrent decay, and staining, to name a few issues. As a result, there is increased demand for an efficient and simple polishing technique in order for clinicians to seal the restoration and maintain a natural luster and contour.

TEST: Gloss

The **gloss** produced on flat specimens of various restorative materials is measured after polishing using a gloss meter. The meter shines a light on the polished surface and measures the intensity of the reflected light. Gloss is a surface property which is related to specular reflection from that surface. It is dependent on the material, the surface roughness, and the angle of illumination. Gloss measurements can be used to compare surface preparation techniques such as finishing and polishing and polishability of restorative materials. A value of 80 Gloss Units (GU) or higher is acceptable.



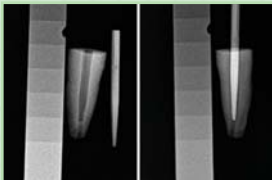
Polisher	Restorative Material	Gloss, GU
Super-Snap X-TREME (Red) (Shofu Dental Corporation)	Filtek Supreme Ultra Universal Restorative (3M ESPE)	84
LUSTER for Zirconia (Meisinger USA, LLC)	BruxZir (Glidewell Laboratories)	159
LUSTER for Lithium Disilicate (Meisinger USA, LLC)	IPS e.max Lithium Disilicate (Ivoclar Vivadent, Inc)	91



Super-Snap X-TREME (Red)

FIBER POSTS

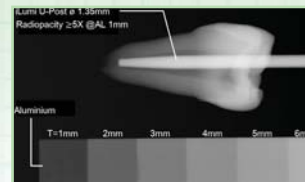
The success of using esthetic fiber posts depends mainly on the fit of the post within the canal. Greater radiopacity provides greater contrast within the x-ray image, making it easier for the clinician to evaluate the fit of fiber post in the canal.

TEST: Radiopacity

Radiopacity is determined by comparing the x-ray image photographic grey level of an aluminum x-ray standard against the grey level of a specific thickness of the material being measured. The result is a radiopacity value in units of mm of aluminum/unit thickness. A typical radiopacity of a post would be 3-5 mm of aluminum/mm of post.



Product	Radiopacity
iLumi Fiber Optic Dental Posts (iLumi Sciences, inc.)	5.3
MACRO-LOCK ILLUSION X-RO (RTD)	4.5



iLumi Fiber Optic Dental Posts

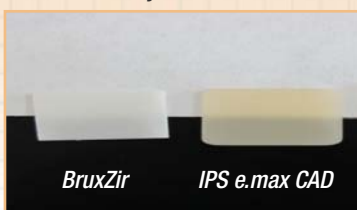
CERAMICS

In order to achieve optimal esthetic properties, the translucency of ceramics should approach optical properties of natural tooth structure. It is important to be familiar with the translucency of different ceramic systems as certain materials may not always be a desirable characteristic when there is a need to mask dark underlying tooth tissue or restorative material.

TEST: Translucency Parameter

The **translucency parameter** (TP) measures light transmission of a specimen of known thickness on black and white backgrounds using a spectrophotometer. More translucent materials have higher values of TP.

Translucency Parameter at 1mm

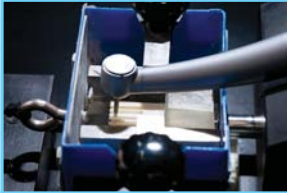


Ceramic (1 mm thick)	Translucency Parameter
Zirconia (BruxZir) (Glidewell Laboratories)	7.8
Lithium disilicate (IPS e.max CAD) (Ivoclar Vivadent, Inc.)	15.8
Resin ceramic (Lava Ultimate Restorative) (3M ESPE)	16.8

BURS

Cutting efficiency is one of the most important factors to consider when a specific dental diamond rotary instrument is selected. Since the cutting effectiveness of burs tends to decrease as debris accumulates and the bur dulls or wears out, it is important to test the cutting efficiency over time.

TEST: Cutting Performance



Cutting performance measured in mm³ of material removed per second can be determined by using a custom-designed machine which pushes and releases the rotating bur with a clinically relevant frequency and maximum load until the volume of the groove cut by the bur in an appropriate medium (e.g., plate glass for diamond burs) shows a decrease in cutting rate of 20%. Initial cutting rate and decrease in cutting rate versus the number of load and unload cycles are excellent measures of the performance of carbide and diamond burs.



Diamond Bur	Initial Cutting Rate, mm ³ /s	Cutting Rate after 275 cycles, mm ³ /s
SINGLES (Meisinger USA, LLC)	0.1	0.08

SURFACE DISINFECTANTS

Cleaning is the basic premise of environmental surface disinfection. It is the physical removal of debris and initially results in a reduction of the number of microorganisms present. Cleaning also removes organic debris that can interfere with appropriate disinfection. The chemical composition of a disinfectant can greatly affect the ability of the active agent to accomplish cleaning and disinfection.



TEST: Blood Tile Test

Disinfectant wipes are challenged with mixtures of blood and bacteria on hard and soft surface tiles. The cleaning of debris is observed visually and also determined with a computer software program. Microbial removal and killing are determined by replica plating technique onto selective growth medium.



CaviWipes 1

	Remaining Debris	Remaining Bacteria
Optim 33TB (SciCan)	0%	0%
CaviWipes 1 (Kerr TotalCare)	0%	0%
Lysol IC III Disinfectant Spray (Reckitt Benckiser)	55%	3%



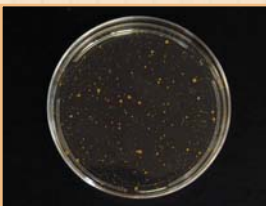
Optim 33TB

WATERLINE TREATMENT

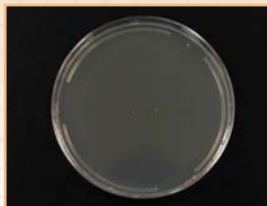
The first documented case of patient infection from contaminated dental waterlines was published in 2012. Although there are CDC recommendations for waterline maintenance, many offices are currently not compliant. THE DENTAL ADVISOR strongly encourages offices to use treatment products appropriately according to product manufacturer's instructions.

TEST: Microbial Detection in Water

Baseline water samples are collected aseptically from the air/water syringe port. Samples are cultured onto selective R2A medium and incubated for 7 days at 25°C. The concentration of viable bacteria is calculated. The waterlines are then treated per manufacturer's instructions for an extended period of time, and monitored weekly.



Culture of 1/500 dental water prior to experiment treatment.



Culture of undiluted sample after prolonged exposure to DP365B cartridge-treated water. Note the absence of any bacterial growth.



	Baseline Microbial Levels (cfu/mL)	Treated Microbial Levels (cfu/mL)
DP365B (DentaPure)	>500	<1

Current CDC guidelines recommends the use of dental treatment water that meets EPA standards for drinking water (i.e. <500cfu/mL).

Perfectemp10

Den-Mat Holdings, LLC
1-800-4DENMAT (1-800-433-6628)
www.denmat.com

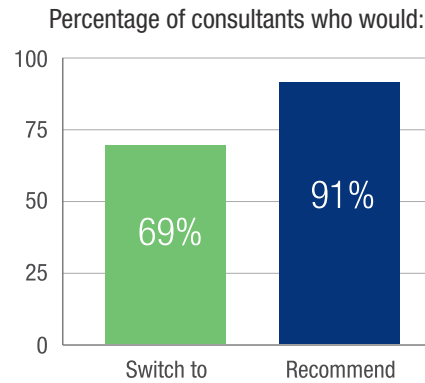
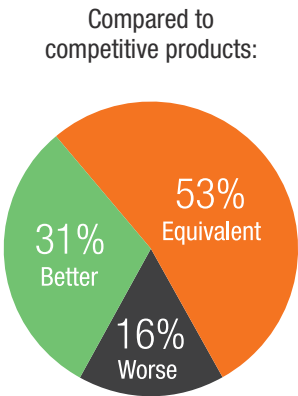
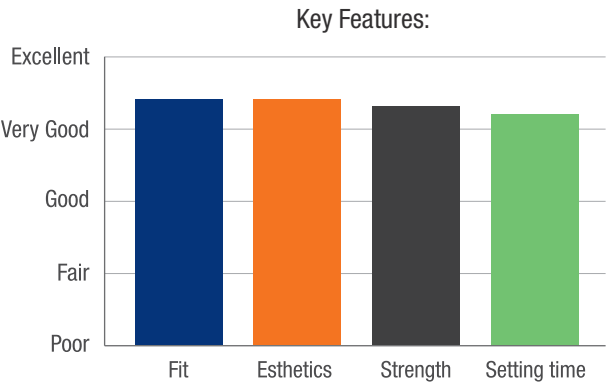
Description

Perfectemp10 is designed to create temporary crowns and bridges that are durable and affordable. **Perfectemp10** has a uniform structure, which results in high luster that minimizes polishing and deters plaque build-up. The material has low shrinkage (3.4%), minimal heat generation, and compressive strength of 400 MPa. **Perfectemp10** is available in 10 mL syringes in shades A1, A2, and A3.5 with 8 mixing tips and automix 50 mL cartridges in shades A1, A2, A3.5, B1, and BL2, with 15 mixing tips. **Perfectemp10** has a working time of 40 seconds, an initial set time of 1:30 to 2:30 (should be removed from mouth by 2:30), and a total cure time of 4:30. The material is ideal for single unit and long span temporaries. **Perfectemp10** was evaluated by 32 consultants in 593 uses. This provisional material received a 97% clinical rating.

Suggested Retail Cost	
50 mL cartridge	\$140 .00
10 mL syringe	\$51.00

Product Features

Perfectemp10 produces provisional restorations with very good fit and esthetics. The material has a reasonably fast setting time, and the working time allows it to be used for multi-unit temporaries. The material sets hard and can be trimmed without chipping at the margins. The low shrinkage results in a good fit and marginal seal. The presence of only a minimal amount of flash with no sticky residue was reported to be an important factor to consultants.



Consultants' Comments
"Nice fit and easy trimming."
"Quick setting time."
"Slim mixing tips minimize waste."
"Strong, esthetic temporaries."
"Picks up anatomical details well and maintains marginal integrity through the setting process."
"Performs just as well as other high-end provisional materials."
"Not as elastic as some other materials – watch for undercuts."

Clinical Tips

- Wait until full cure before adjusting and finishing.
- Use a diamond rather than an acrylic bur for faster trimming. ■

Iperbond Ultra

Itena Clinical

(877) 224-6608, (516) 247-2743

sales@itena-na.com | www.itena-clinical.com

Description

Iperbond Ultra is a single-component, light-cured, universal bonding agent that can be used as a self-etching product or with a phosphoric acid etchant for adhesive restorative techniques. When combined with **Iperbond Ultra Activator**, it can be used with chemically cured materials. **Iperbond Ultra** is indicated for adhesive bond of composite to enamel and dentin, ceramics and metal, as well as for dentin sealing. Application instructions for self-etch mode include scrubbing the adhesive into the tooth for 20 seconds, air drying, and then light curing for 20 seconds. If a phosphoric acid etch is used, an additional coat of **Iperbond Ultra** is required. **Iperbond Ultra** is available in a 5 mL dropper bottle. **Iperbond Ultra** was evaluated by 22 consultants in 516 uses. This universal bonding agent received a 91% clinical rating.

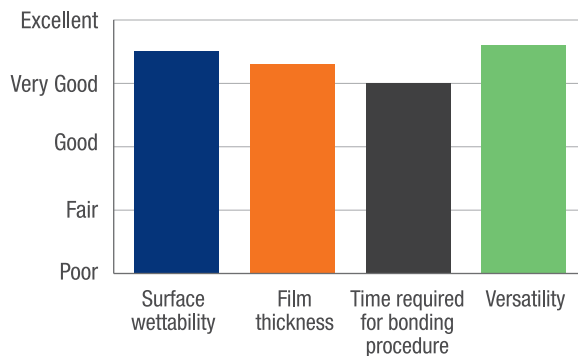
Suggested Retail Cost

\$119.99 per 5mL/bottle

Product Features

Iperbond Ultra is a versatile adhesive. Consultants liked having the choice between phosphoric acid etching or self-etching. The option of adding the activator for use with dual- or self-curing composites enhances the usefulness of this product. The ethanol/water solvents in **Iperbond Ultra** are easy to evaporate from the tooth surfaces, and the low viscosity coats the tooth evenly without pooling. Having one adhesive that can bond to all substrates was a key feature for consultants who evaluated **Iperbond Ultra**.

Key Features



++++ 1/2



Consultants' Comments

"Surface was glossy after one application."

"The self-curing option is nice."

"Low film thickness."

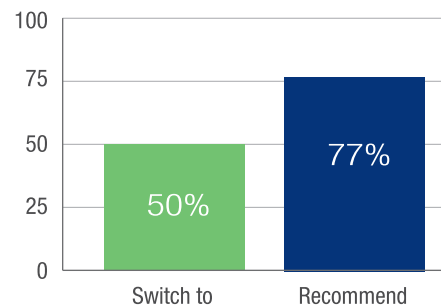
"No post-operative sensitivity."

"One of the best priced bonding agents available."

Clinical Tips

- Becomes self-curing when combined with **Iperbond Ultra Activator**.
- Refrigeration is recommended. ■

Percentage of consultants who would:





Description

NiteBite is a therapeutic appliance designed to relieve discomfort associated with bruxism and clenching. It does so by initiating the jaw-opening reflex. **NiteBite** is designed to fit most patients without the need for taking impressions. **NiteBite** is comprised of a rigid outer layer and a thermoplastic inner layer. After immersion in hot water (160-180 °F) for 45 seconds, it is centered over maxillary central incisors with firm, even pressure; some excess material may be extruded. After **NiteBite** forms in the mouth and cools for about two minutes, it is removed and run under cold water to promote a final set. There should be no posterior occlusion when lower incisors are in contact with **NiteBite**. **NiteBite** was evaluated by 15 consultants in 75 uses. This appliance received a 91% clinical rating.

Suggested Retail Cost \$165.00/5 appliances

Clinical Observations

Fabrication

Since no impressions are necessary, **NiteBite** can easily be used for patients with limited opening or those with a sensitive gag reflex. Fabrication is quick and easy to perform. Once warmed and fully softened, the device seats over the teeth with minimal pressure. Working time is adequate to position and center **NiteBite** before it starts to harden. Total fabrication time was about five minutes.

Effectiveness

NiteBite is effective for patients who are having acute symptoms from TMD. Having a same-day appliance offers faster relief compared to laboratory-fabricated devices. **NiteBite** was also used as a diagnostic tool by some consultants when the source of a patient’s discomfort was uncertain. . Aside from the treatment of jaw pain due to clenching and/or grinding, **NiteBite** is effective in helping patients who chronically have sore teeth from paroxysmal nighttime habits or who chronically bite their cheeks.

Patient Acceptance

The ability to create an immediate appliance for patients with acute symptoms is the most outstanding feature of **NiteBite**. Because it is small and comfortable, patient compliance was reported to be high, contributing to its effectiveness. The **NiteBite** accomplishes this by triggering the jaw relaxation reflex, relaxing the jaw muscles and returning the lower jaw to the physiologic rest position.



Consultants’ Comments

“Great product for same day splint for the symptomatic patient.”

“It is so easy to fabricate. No mixing powder and liquid - just heat the device in water and it is ready to fit.”

“I will keep these in my office as a therapy for acute TMD patients.”

“All patients felt relief.”

Comfort

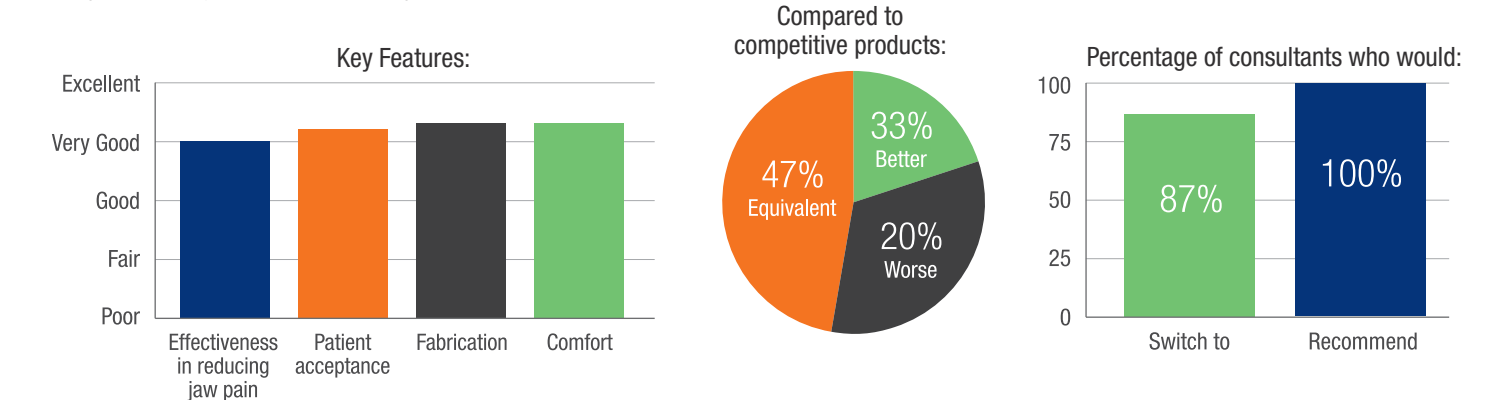
Fully seating **NiteBite** during fabrication is critical for a stable, secure fit. When made properly, it will have good retention, minimizing the chance of the appliance becoming dislodged. Some consultants wanted a wider option, mainly to reduce the chance of patients swallowing or aspirating it.

Packaging

Each appliance comes with a small plastic case, which is hard to open and not very durable. Consultants wanted a nicer container to give their patients.

Clinical Tips

- Use a scalpel to trim extruded thermoplastic material from the edges, if necessary.
- Lubricate teeth prior to fabrication to avoid locking the material onto the teeth.
- Wait until material is completely clear before seating **NiteBite** in the mouth ■



Smile Designer Pro

Tasty Tech

www.smiledesignerpro.com

Description

Smile Designer Pro is an *iPad* software application that uses digital imaging for communication and treatment planning of cosmetic case presentations to patients. The application uses vectors and curve control point interactions to design teeth. Using touch or a stylus, the user can re-size tooth geometry while maintaining proportion, as well as rotate, move, duplicate, and mirror. Specialized guides and calipers are included: midline guide, horizontal guide, lip curve guide, interdental width proportion guide, and proportion measurement caliper. **Smile Designer Pro** supports high-resolution photo imports from Dropbox, up to 15 megapixels on an *iPad2* or newer model. Pictures can also be taken using the *iPad's* built-in camera, or photos can be imported from the *iPad Photo Library*. **Smile Designer Pro** was evaluated by 17 consultants in over 200 uses. This cosmetic imaging application received an 86% clinical rating.

Suggested Retail Cost

\$99 /month

\$999 /year

\$1499 /lifetime

Product Features

Smile Designer Pro offers a significant number of tools for smile design. Because this is a dental program, it is easier to use and more applicable than programs such as *Photoshop*, *Keynote* or other generic imaging software. For some users the learning curve was short, while others found it complex. Starting with good digital photos is important. When taken at the same angle, the software effectively correlates natural

++ ++

Consultants' Comments

"The developer did so many smart things in the software to make this an excellent treatment planning and lab communication tool, not just an imaging software. That makes the software worth the investment."

*"Fundamental skills with photography are a prerequisite to using **Smile Designer Pro**."*

"Enables the patient to get an idea of what can be changed in their smile; a copy can be printed or sent to their e-mail."

"The horizontal correction tool is a smart addition."

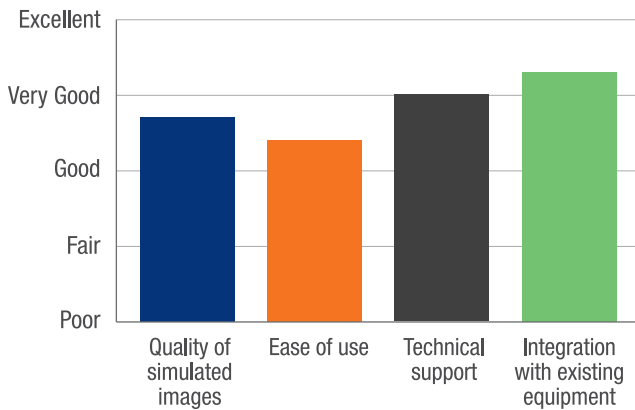
"I would like to see a simplified step-by-step work flow in the help section for quick reference."

"Not super intuitive, but it does get better with use."

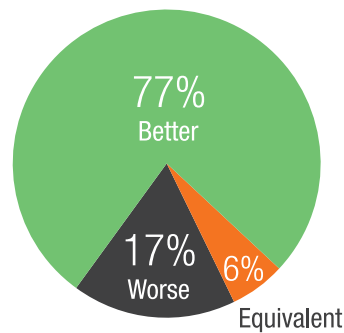
"Provide at least one lower tooth template for full-mouth simulations."

smile and retracted patient images together. This feature allows the design to be done on the retracted view and also be used for smile simulation. Tools include a smudge brush which is used for tooth shortening, however there is no tool for "erasing" existing teeth. Designs that were additive had a better result than those that required removal of the teeth. Overall, **Smile Designer Pro** was most useful to clinicians who were already performing high-end cosmetic dentistry and those familiar with smile design. ■

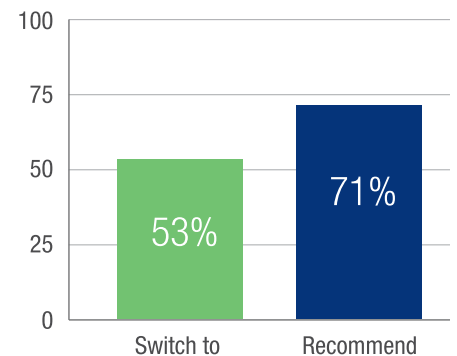
Key Features:



Compared to competitive products:



Percentage of consultants who would:



Cavitron JET Plus Ultrasonic Scaler & Air Polishing System

Dentsply Professional
(800) 989-8825
www.dentsply.com

+++ + 1/2



Description

Cavitron JET Plus is an ultrasonic scaler and air-polishing prophylaxis system, now with *Tap-On* technology. This feature allows the operator to remove their foot from the pedal and rest, avoiding the discomfort associated with continuous applied pressure. The prophylaxis mode automatically alternates between air polish and rinse cycles in short, medium, or long intervals again eliminating the need to touch the foot pedal. Power options include a single-push Turbo mode, which increases power by 25% (can also be activated by pushing the foot pedal to the floor), and an extended low-power range designed for improved patient comfort. The handpiece is autoclavable and the unit has single push purge and rinse modes. The system is indicated for all general supra- and sub-gingival scaling applications; periodontal debridement; endodontic procedures; removal of extrinsic stains including tobacco, coffee, tea, and chlorhexadine; prophylaxis of orthodontic patients; and preparing teeth prior to bonding and sealant procedures. **Cavitron JET Plus** was evaluated by seven consultants in 225 uses. This ultrasonic scaler received a 93% clinical rating.

Suggested Retail Cost \$5,974.00/unit

Equipment Features

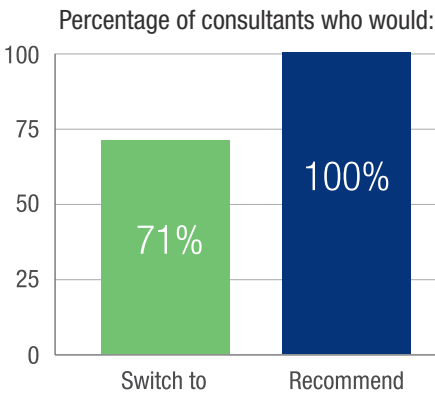
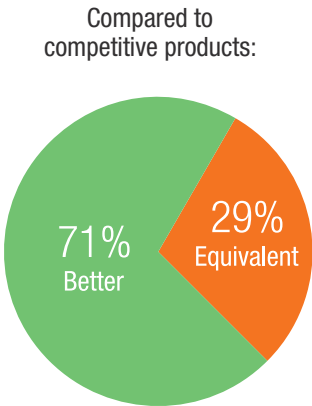
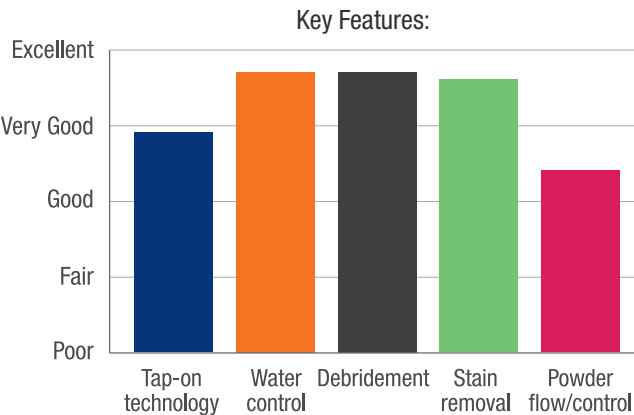
Consultants loved that **Cavitron JET Plus** integrated an ultrasonic scaler and air polisher in one unit. The *Tap-On* technology eliminates the need for continued pressure on the foot pedal by the operator. When the pedal is tapped to turn off the scaler, there is a slight delay before the water flow turns off. The *Tap-On* mode can be disabled if a user prefers traditional foot pedal control. The *Prophy* mode automatically cycles between air polish and rinse without touching foot pedal, increasing efficiency. The finer water control on **Cavitron JET Plus** was reported to be an improvement over previous models.

Consultants' Comments

- "Wireless foot pedal reduces clutter in the operatory."
- "Ultrasonic scaler and air polisher in one unit is a hygienist's dream!"
- "The Tap-On technology lets me scale on 'cruise control.'"
- "Patients were most comfortable with powder flow on the lowest setting."
- "Include an extra sterilizable handpiece so the unit can be used on consecutive patients."

Clinical Tips

- Cavitron PROPHY-JET Prophy Powder should not be used on patients on a sodium-restricted diet; Cavitron JET-Fresh Prophy Powder is a sodium-free alternative.
- Use of HVE suction is recommended during treatment.
- The handpiece accepts 30K ultrasonic inserts. ■



Cavitron slimLINE FITGRIP Ultrasonic Insert

Dentsply Professional

(800) 989-8825

www.dentsply.com

Description

The **FITGRIP** feature of *Cavitron Ultrasonic Inserts* is designed to improve comfort and performance with its ergonomic design. The one-piece design of the insert, a large grip diameter, and a rippled texture and unique shape are designed to lessen muscle load and pinch force while decreasing the chance of slipping during a procedure. The **slimLINE** Ultrasonic Insert is designed to remove light to moderate deposit. The shape of the tip adapts around line angles of teeth and provides sub gingival and interproximal access. The inserts have Focused Spray technology for increased efficiency with less water spray, greater visibility and improved patient comfort. **Cavitron slimLINE FITGRIP Ultrasonic Inserts** were evaluated by 44 consultants in 1261 uses. This ultrasonic insert received a 91% clinical rating.

Suggested Retail Cost \$179.00/each

Product Features

The **FITGRIP** is comfortable to hold with its soft surface and textured grip that eliminates slipping. Calculus removal was reported to be efficient with the **slimLINE** insert; the thin, angled tip reached subgingivally and into interproximal areas. The focused water spray decreases the volume of water necessary and improves visibility. The larger diameter of the **FITGRIP** feature decreased hand fatigue for most users, but the bulkiness impeded access in some cases. ■

++++ 1/2

Consultants' Comments

"The grip decreases muscle fatigue."

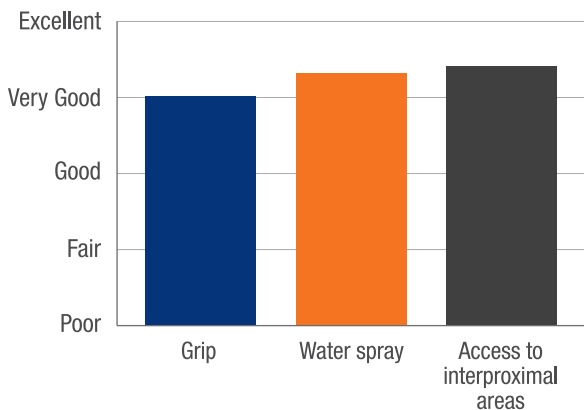
"The triple bend design made it easy to access interproximal and subgingival areas, around all line angles, and especially lingual surfaces."

"The water spray was always consistent and comfortable for the patient."

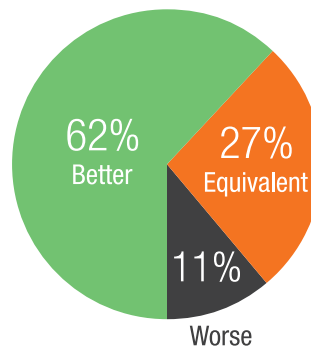
"Quick and efficient calculus removal with light touch."

"The grip is comfortable to hold but does not slide freely along the patient's buccal mucosa."

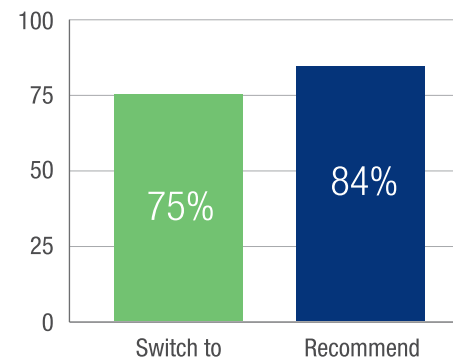
Key Features:



Compared to competitive products:



Percentage of consultants who would:



TIDIShield Curing Light Sleeves

TIDI Products

(800) 521-1314

www.tidiproducts.com

Description

TIDIShield Curing Light Sleeve with The SureCure Window™

provides a custom fit that eliminates the air pockets, wrinkles and excess film that may interfere with the depth and quality of cured restorations. You can be confident that the quality and depth of cure will not be adversely affected by using a custom fit barrier. You can also be sure that you have a quality restoration while protecting your patients from cross-contamination. Barriers reduce the need for using harsh disinfectants, thus extending the life of expensive curing lights. The manufacturer highlights the following features:

- Confident cures - The **TIDIShield Curing Light Sleeves** are proven to produce cured restorations equal to those where no barrier is used.
- Infection prevention - Unique individually wrapped, easy-peel outer wrapping protects inner sleeve from contamination. Eliminates the potential for bacteria build-up on curing light surfaces.
- Comfort - Custom fit with soft, rounded edges for greater patient comfort.
- Cost-effective - Extends the life of expensive equipment. Prevents hard to remove composite build up on the curing light tip.

TIDIShield Curing Light Sleeves were evaluated by 20 consultants in 522 uses. This custom barrier received an 86% clinical rating.

Suggested Retail Cost

\$16.99/box of 100



Consultants' Comments

"Excellent light transmission."

"Very easy to put on. A new user would not have trouble placing them on quickly or removing them."

"Effective infection control."

"Prevents damage to light curing unit from chemical disinfectants."

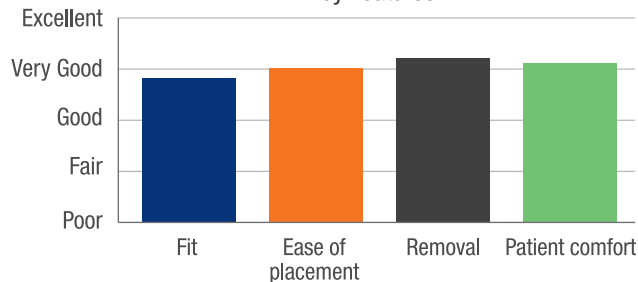
Product Features

Consultants were provided with **TIDIShield Curing Light Sleeves** to fit the lights in their offices. The sleeves are easy to put on and the **SureCure Window™** remains aligned over the tip of the light during use. The fit over the light guide was reported to be more secure than the fit over the handle. Some consultants taped the sleeve around the end of the handle to prevent bunching or shifting. **TIDIShield Curing Light Sleeves** are effective in preventing build-up of composite on the curing tip and keeps the areas around the buttons clean, sanitary and free of bacteria build-up.

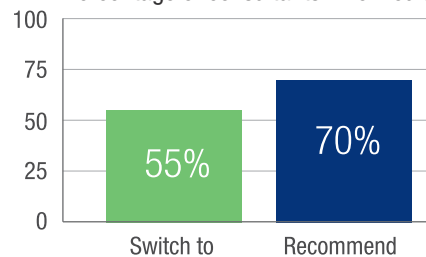
Clinical Tip

- Orient the light tip toward the paper during placement for proper alignment of the **SureCure Window™**. ■

Key Features:



Percentage of consultants who would:



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