

NAVOFIL Nova®

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NEW PRODUCTS SHOWCASE

AT&M Biomaterials Co., Ltd.

Two Decades in the Lab. One Moment in the Mouth.

U.S. Joint Research. A multinational R&D collective of renowned chemists and leading clinical university dental professors—translating cutting-edge laboratory discoveries into restorative solutions you can trust.

RESEARCH & DEVELOPMENT

01 — U.S. Joint Research Labs · Chief Scientist Collective

Our scientists are alumni of America's premier dental product enterprises, with over two decades of deep specialization in dental adhesive systems, composite resin formulations, and pulp protection technologies. They continue to push the frontier of permanent restorative materials.

02 — Renowned Chemist · Material Synthesis Authority

Nearly twenty years of focused research in dental material synthesis and permanent restorative science. Mastery of chemical synthesis, material characterization, and advanced biomaterial product development—turning rigorous molecular design into restoration quality you can feel chairside.

03 — Clinical University Dental Professors · The Translational Bridge

In partnership with dental faculty from multiple top-tier U.S. clinical universities, every formulation is grounded in real-world clinical scenarios—ensuring each product closes the gap between bench-top innovation and chairside outcomes.



ONELUX[®] CHROME

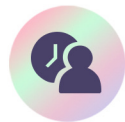
One-Shade Universal Composite

ONELUX CHROME is a light-cure radiopaque composite for anterior and posterior restorations. ONELUX CHROME can be used for all natural tooth shades due to its continuous color matching properties. Besides its long-lasting gloss and tooth-like opalescence, ONELUX CHROME also demonstrates excellent physical properties and good handling characteristics. High gloss polishability requires little effort.

PRIMARY CLINICAL BENEFITS



Achieve seamless matching of **all natural tooth colors** with just one shade.



Reduces the chair time as the dentist **does not need to determine the tooth shade**



The dentist's inventory
(no big stock, no complicated orders, no waste)



Innovative fillers with optimal light diffraction technology, no pigment

SPECIFICATIONS

Net Weight : 4g/syringe

Model: ONELUX CHROME Universal Composite offers unmatched versatility, covering a wide range of tooth shades from A1, A2, A3, A3.5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D2, and D3, ensuring that you can achieve the ideal match for nearly every patient, no matter their natural tooth color.



NANOFIL Nova[®]

LIGHT-CURED UNIVERSAL COMPOSITE

When developing Nova, we always start with the real needs of clinicians:

We are proud to announce the launch of Nanofil Nova, an advanced light-cured, nanohybrid, radiopaque universal composite engineered with an optimized 81.5 wt% high-density filler load by weight to deliver exceptional mechanical integrity, minimized volumetric shrinkage, and versatile performance for both direct and indirect restorations in anterior and posterior teeth. This state-of-the-art formulation seamlessly bridges advanced materials science with tailored clinical utility, offering distinct radiopacity for precise diagnostic monitoring alongside an efficient depth of cure of ≥ 2.6 mm across all shades to maximize chairside efficiency during incremental placement. To meet diverse clinical preferences, Nanofil Nova is engineered in two distinct rheological formulations—one softer and one firmer—both featuring a non-sticky matrix that eliminates instrument adhesion for precise anatomical sculpting, while the softer variant utilizes an optimized nanohybrid particle distribution that polishes to a high-gloss finish to replicate natural tooth structure for unmatched anterior aesthetics.

PRIMARY CLINICAL BENEFITS



Durable Restorations

NANOFIL Nova® Light-Cured Universal Composite delivers outstanding mechanical strength and wear resistance helping clinicians create durable, long-lasting restorations that withstand everyday function.



Excellent Esthetics

The Soft-Flow Variant is designed for superior polishability and stain resistance. NANOFIL Nova® Light-cured Universal Composite helps to achieve natural-looking restorations and maintains their esthetic appearance over time.



Exceptional Handling

NANOFIL Nova® Light-Cured Universal Composite offers smooth, non-sticky handling for precise placement and sculpting. Single-dose pre-dosed can be warmed to enhance flowability, allowing clinicians to tailor handling characteristics to their individual preferences and clinical needs.



High Radiopacity

The high radiopacity of NANOFIL Nova® Light-cured Universal Composite ensures a clear distinction between the restoration and surrounding tooth structure on radiographs. This facilitates accurate diagnosis, treatment evaluation, and long-term follow-up.

SPECIFICATIONS

Model: HA1、HA2、HA3、HA3.5、HB1、HBW、SA1、SA2、SB1、SBW

Net Weight : 4g/syringe



NANOFIL Nova®

THERACALM LC

Light-Cured Resin-Modified Calcium Silicate Pulp Protectant & Liner

TheraCalm LC is a light-cured, resin-modified calcium silicate material indicated for direct and indirect pulp capping and as a protective liner beneath composite, amalgam, cement, and other restorative materials. It may be used as an alternative to calcium hydroxide, glass ionomer, resin-modified glass ionomer (RMGI), IRM/ZOE, and other base materials.

TheraCalm LC provides an insulating and protective barrier for the dental pulpal complex.

PRIMARY CLINICAL BENEFITS



Calcium release

Controlled calcium release stimulates hydroxyapatite deposition and supports secondary dentin bridge formation.



Protective seal

Consistent calcium release contributes to the creation of a durable protective seal.



Alkaline pH

Alkaline pH environment supports healing, maintains pulp vitality, and encourages apatite formation.



Insulates the pulp

Creates an insulating protective barrier for the pulp, minimizing the risk of post-operative sensitivity.



High radio opacity

Moisture-stable and radiopaque — it remains intact over time and is clearly visible on radiographs.

SPECIFICATIONS

Shades : White

Net Weight : 1.2g/syringe



PRACTICE

TheraCalm LC is not merely an additional material; it provides simultaneous improvements in procedural efficiency and clinical performance.

NANOFIL Nova®

FLOWABLE LIGHT-CURED COMPOSITE

NANOFIL Nova® Flowable Composite is a light-cured, nano-hybridized, high filler loading, low-elasticity flowable composite. It is restoration material for I recommend to add; Class I and Class II of small, non-occlusal stress-bearing restorations, Class III, V and small Class IV cavities. They can also be used as small cavity liner (Class I and Class II filling), the establishment of small post cores and the restoration of Class I or Class II cavities in deciduous teeth. Formulated with a proprietary inorganic filler system, this premium light-cured flowable composite delivers exceptional thixotropic handling alongside long-lasting esthetic integration and superior gloss retention. Featuring high radiopacity that comfortably surpasses natural dentin, the material provides outstanding contrast to ensure clear structural differentiation on subsequent diagnostic radiographs. This advanced formulation minimizes polymerization shrinkage while eliminating clinical ambiguity, guaranteeing seamless anatomical adaptation and straightforward secondary caries detection.

PRIMARY CLINICAL BENEFITS



Low Modulus of Elasticity Design

Low Modulus of Elasticity to help absorb functional stresses



High Strength & Superior Wear Resistance

High Strength for durable, wear-resistant restorations.



Natural Translucency & Invisible Aesthetics

Excellent Aesthetics with natural translucency and shade integration.



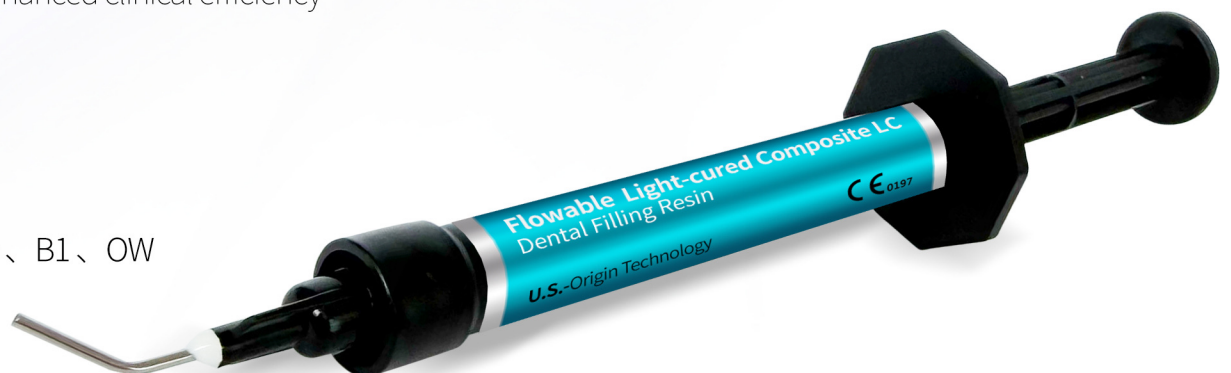
Time-Saving & Efficient Handling

Precise Placement and Adaptation for enhanced clinical efficiency

SPECIFICATIONS

Shades : A1、A2、A3、A3.5、A2(P)、A2(LV)、B1、OW

Net Weight : 1.1g/syringe 、 2.2g/syringe



NANOFIL Nova Flowable Light-Cured Composite

Low shrinkage, high strength, natural beauty, and easy application.

NANOFIL Nova®

ETCHANT GEL

NANOFIL Nova® Etchant Gel phosphoric acid etchants are in a semi-gel form. It is intended for etching enamel and dentin prior to restorative procedures and may also be used for cleaning restorative surfaces. The NANOFIL Nova® Etchant Gel. Etch37 is specially designed for etching enamel selectively. The etchant effectively removes the smear layer, demineralizes enamel and dentin, and creates a micro-retentive surface to enhance bonding performance. It rinses off easily without residue, improving wettability and bond strength. The product may be used in combination with benzalkonium chloride (BAC) for antibacterial effects.

PRIMARY CLINICAL BENEFITS



High-Viscosity Gel Formulation

The high-viscosity gel consistency prevents unwanted flow and enables precise placement, ensuring etching is confined strictly to the intended treatment area.



Supreme Adhesion

Engineered to develop the essential micro-retentive topography required for long-lasting, reliable restorations. Empirical data demonstrates that NANOFIL NOVA etchant achieves elevated bond strength values on both enamel and dentin under various wet and dry moisture parameters.



Swift, Residue-Free Rinsing

Easily and thoroughly rinsed off with water in short time; no residual remnants compromise subsequent bonding and ensures reliable bond durability.



BAC-Incorporated Antimicrobial Formula

Formulated with benzalkonium chloride (BAC); in vitro tests confirm its efficacy against caries-causing bacteria including Streptococcus mutans and Actinomyces viscosus.



Versatile Clinical Application

Primarily engineered for selective-etch technique while compatible with total-etch on demand; also applicable as a cleaner for indirect restorations (30-second cleaning duration, forbidden for use on zirconia substrates).

SPECIFICATIONS

Model: 35% \ 35%(BAC) \ 37% \ 37%(BAC)

Net Weight : 5mL



NANOFIL NOVA

ETCHANT GEL is used to etch the tooth structure prior to bonding adhesives, composites, or sealants. It is specifically formulated to be easily applied to larger surface area and rinse cleanly with no residue. Uni-Etch is ideal for the totaletch technique.

NANOFIL Nova®

New Product
Launch

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