

# LIGHT-CURED UNIVERSAL COMPOSITE

**An Efficient Restorative Solution**  
for a Wide Range of Cavity Preparations



CE 0197

**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  $\geq 2.6$  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.



### PRACTICE

NANOFIL Nova® helps clinicians achieve predictable, long-lasting, and beautifully integrated restorations with ease.



# 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.



# SCIENCE BEHIND THE FORMULA

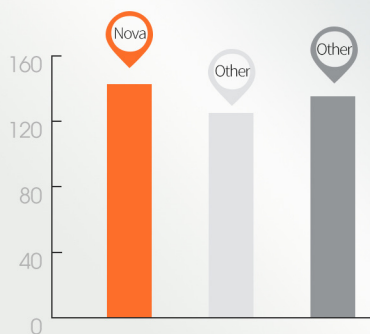
Introducing **NANOFIL Nova Light-Cured Universal Composite**, a dual-series restorative system engineered with optimized filler-to-resin matrix chemistry to elevate clinical efficiency and predictable patient outcomes. Formulated with a thixotropic rheological profile, this versatile composite provides effortless, non-sticky handling with precise adaptation to cavity preparations without slumping, while minimizing polymerization shrinkage stress to safeguard long-term marginal integrity. To address diverse clinical demands, the product line features two distinct series: the **High Hardness & Toughness Series**, which leverages sophisticated particulate filler technology and high-purity resin monomers to deliver superior flexural and compressive strength for maximum fracture resistance under high posterior masticatory loads, and the **Smooth & High Polish Series**, which optimizes nano-filler distribution for exceptional polishing efficiency and long-term gloss retention, achieving a high-luster surface finish that minimizes biofilm accumulation over time. Versatile enough for both direct and indirect procedures, the NANOFIL Nova Light-Cured Universal Composite streamlines inventory management for clinical practices by delivering structural reliability, clinical consistency, and pristine esthetic excellence across all classifications of cavity design.

## NANOFIL Nova Light-Cured Universal Composite

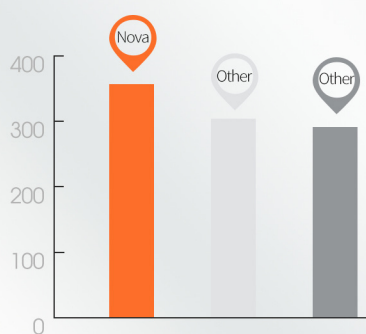
The optimized filler size distribution enables dense particle packing, superior physical properties, and low resin content—delivering the perfect balance of esthetics and performance.

# PHYSICAL PERFORMANCE

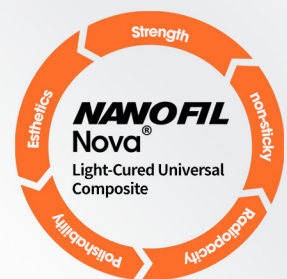
Flexural Strength(MPa)



Compressive strength(MPa)



★ Per the test results conducted by ATBIO



# APPLICATIONS

The esthetic and efficient solution for restorations in all cavity classes.



## BEAUTIFUL RESTORATIONS AT YOUR FINGERTIPS!

### High Hardness & Toughness Series

Engineered for exceptional mechanical performance, this series offers high strength, wear resistance, and compressive resistance. It is ideally suited for posterior restorations and other high-load-bearing clinical applications where durability is essential.

### Smooth & High Polish Series

Designed with esthetics in mind, this series features a fine texture, excellent polishability, and long-lasting gloss retention. It is the ideal choice for anterior restorations where natural appearance and superior esthetics are paramount.

### Available Shades

High Hardness & Toughness Series: HA1. HA2. HA3. HA3.5. HB1. HBW

Smooth & High-Polish Series: SB1. SA2. SB1. SBW



**NAOFIL Nova®**

# POWER UP YOU DENTISTRY

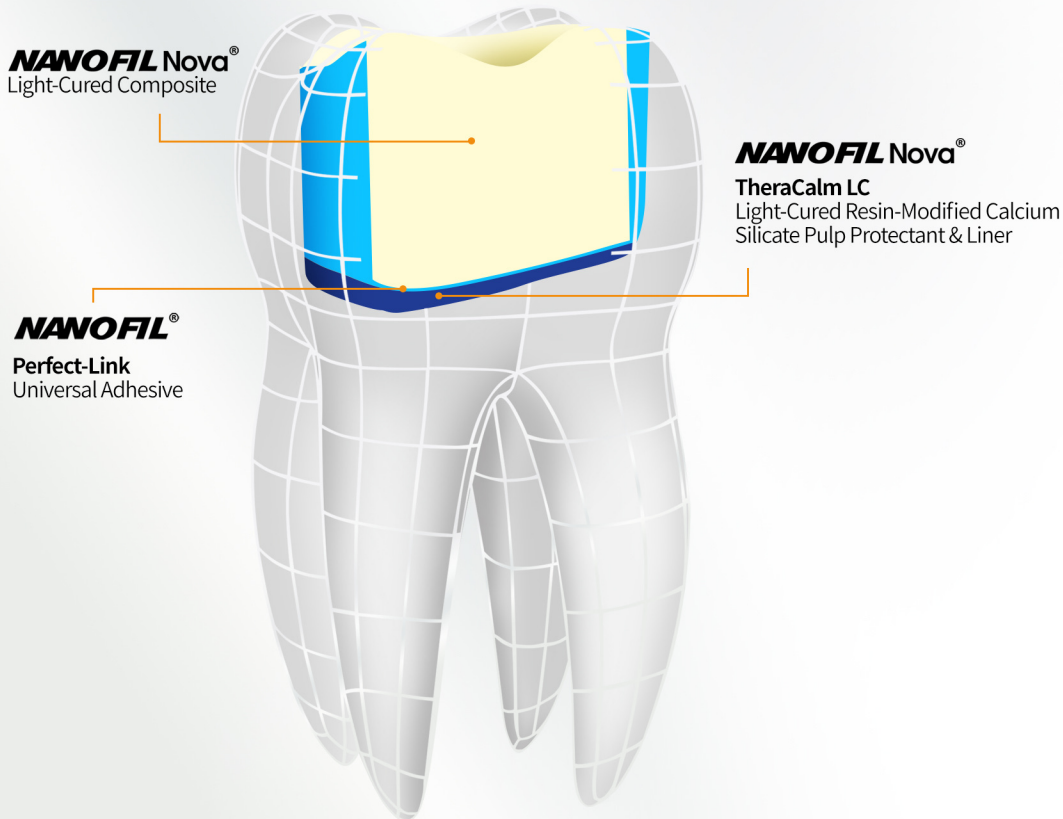
## LAYER BY LAYER

### The classic layered restoration protocol using a “liner + bonding agent + composite resin” system:

First, a protective liner provides reliable pulp protection for deep/near-carious lesions. Next, the bonding agent ensures a durable bond between the tooth structure and restorative material. Finally, NANOFIL Nova Light-Cured Universal Composite delivers an aesthetic final restoration.

#### NANOFIL Nova Light-Cured Universal Composite

This workflow balances pulp safety, bond strength, and restoration stability, delivering standardized, predictable long-term outcomes for a full range of carious lesions.



# IN ACTION

## 1. Isolation

The use of a rubber dam is recommended to provide adequate moisture control and isolation throughout the restorative procedure.

## 2. Cavity Preparation

Prepare the cavity according to accepted restorative principles, minimizing unnecessary removal of healthy tooth structure.

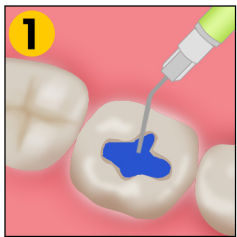
### 1 Etchant



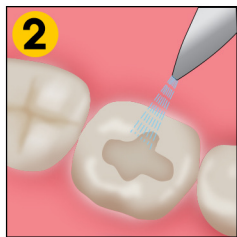
### 2 Dental Bonding Agent



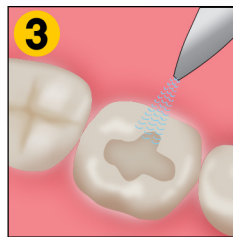
### 3 Light-cured Composite



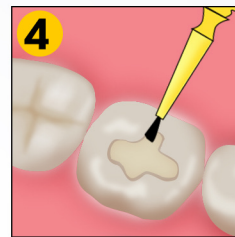
Acid etching



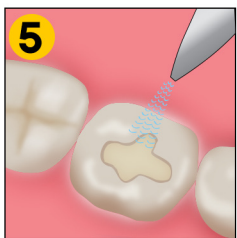
Water rinse



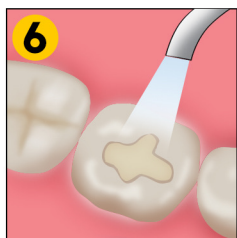
Low pressure blowing



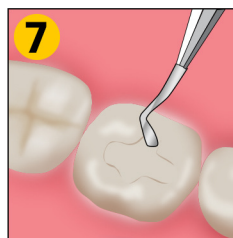
Apply adhesive



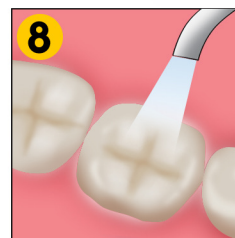
Gentle air blow: 2-3 sec  
Strong air blow: 5-10 sec



10 seconds of light exposure



Light-cured Composite



Light Curing


New Product  
Launch



## CONTACT US

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