

# MANIFill Bulk

FLOWABLE BULK FILL COMPOSITE  
FOR POSTERIOR RESTORATIONS

Polymer-based Dental  
Restorative Material  
**MADE IN GERMANY**



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FOR POSTERIOR RESTORATIONS

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**MANI**


**MANIFill Bulk** – the highest level of physical properties required for a strong filling! Light-curing, flowable composite for quick and easy application using the bulk-fill technique, layering in 4 mm.

## INDICATIONS

- ▼ Fillings with layer thicknesses up to 4 mm depth of cure for Class I cavities
- ▼ Base fillings with up to a 4 mm depth of cure for Class II cavities. For Class II cavities, a coating with a composite suitable for Class II cavities is required.
- ▼ Cavity lining – as the first layer in Class I and II cavities

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## PRODUCT FEATURES

- ▼ Single-layer application for efficient restorations
  - ▼ Safe curing up to a 4 mm depth of cure
  - ▼ Optimized flow characteristics for precise and user-friendly handling
  - ▼ **High radiopacity for better visibility on X-ray images (210% Al)**
  - ▼ **Exceptional physical and mechanical properties**
  - ▼ **High biocompatibility, completely Bis-GMA-free**
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# STEP BY STEP

## 1 PREPARATION OF THE CAVITY

Prepare the cavity according to the general rules of adhesive technique. Do not bevel the posterior teeth.

## 2 PULP PROTECTION

Cover very deep cavities with a calcium hydroxide preparation.

## 3 APPROXIMAL CONTACT DESIGN

Apply and secure the transparent matrix.

## 4 ADHESIVE SYSTEM

Etching and bonding according to manufacturer's instructions.

## 5 COMPOSITE APPLICATION

**Syringes:** Attach the application cannula and apply the material in layers of max. 4 mm.

**Compules:** Insert into the dispenser, remove the cap, and apply the material with even pressure.

## 6 CURING

Cure each layer for 20 seconds with a curing light, holding the light guide close to the surface.

## 7 FINISHING & POLISHING

After polymerization, immediately finish and polish with finishing diamonds, silicone polishers, or polishing brushes.



# MANIFill Bulk IN COMPARISON

## MEASUREMENTS\*

|  | MANIFill Bulk | Competitor 1 | Competitor 2 | Competitor 3 |
|--|---------------|--------------|--------------|--------------|
| E-module <sup>1)</sup>                 | 11090 MPa     | 5840 MPa     | 4340 MPa     | 5910 MPa     |
| Flexural Strength <sup>1)</sup>        | 134 MPa       | 128 MPa      | 113 MPa      | 128 MPa      |
| Vickers Hardness <sup>1)</sup>         | 737 MPa       | 371 MPa      | 299 MPa      | 341 MPa      |
| Compressive Strength <sup>1)</sup>     | 381 MPa       | 460 MPa      | 419 MPa      | 303 MPa      |
| Polymerization shrinkage <sup>2)</sup> | 2,8%          | 2,9%         | 3,3%         | 2,9%         |

MANIFill Bulk impresses with the best measurement values in the comparable market.

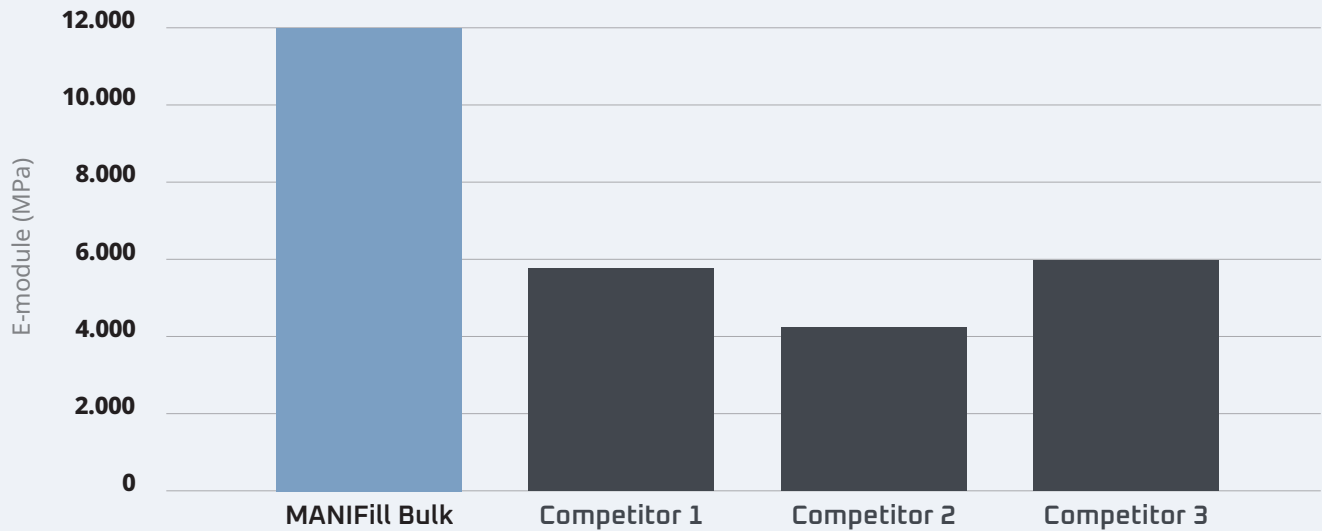
<sup>1)</sup> The measurements were carried out by the Fraunhofer Institute in Dresden.

<sup>2)</sup> External measurement by Innomat GmbH.

\* All technical data are average values and may vary slightly in each delivery batch.

# MODULUS OF ELASTICITY

The measurements were carried out by the Fraunhofer Institute in Dresden.



# PHYSICAL DATA\*

| Vickers Hardness     | Flexural Strength | E-module    |
|----------------------|-------------------|-------------|
| 737 MPa              | 134 MPa           | 11090 MPa   |
| Compressive Strength | Filler Content    | Radiopacity |
| 381 MPa              | ca. 77%           | 210%        |

\* All technical data are average values and may vary slightly in each delivery batch.



eIFU ↑

Available colors

**Medium / Universal**

Content

🔪 **2g syringe incl. 10 application tips**

🔪 **16 compules of 0.25g = 4g**



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