

# Solventum™ Filtek™ Composite Warmer

# Why should you consider composite warming?

Warming can provide benefits, including better flow, lower extrusion force, and more

Better flow  
and viscosity



Reduced extrusion force

in capsules by



in flowable syringes by



Improved  
adaptation,  
fewer voids



- Heat increased flowability during placement<sup>1</sup>
- Heat decreased viscosity, simplifying placement<sup>2</sup>

1. Ahn KH, Lim S, Kum KY, Chang SW. Effect of preheating on the viscoelastic properties of dental composite under different conditions.

2. Ayub KV, Santos GC Jr, Rizkalla AS, Bohay R, Pegoraro LF, Rubo JH, Santos MJ. Effect of preheating on microhardness and viscosity of 4 resin composites. J Can Dent Assoc. 2014;80:e12. PMID:24598328.

- Heat lowered extrusion force<sup>3</sup>

3. Internal Data

- Warming considerably improved adaptation and reduced voids<sup>4</sup>

4. Demirel G, Orhan AI, Irmak O, Aydin F, Büyüksungur A, Bilecenoğlu B, Orhan K. Effects of Preheating and Sonic Delivery Techniques on the Internal Adaptation of Bulk-fill Resin Composites. Oper Dent. 2021 Mar 1;46(2):226-233. doi: 10.2341/19-241-L. PMID: 34242394.

# Ready to start warming?

## Solventum™ Filtek™ Composite Warmer

Get all the benefits of composite warming, quickly and easily. This compact, lightweight and portable device is sized to fit your procedure and your space.

- **Fast:** warmed material in as little as 2 minutes after a fast start of only 10 minutes
- **Easy:** one-button operation, easy to clean and disinfect
- **Portable:** removable composite holder maintains heat and can be moved and used at point of care



What can warm composite do for your procedure?



Better flow



Improved adaptation



Reduced extrusion force

# Solventum™ Filtek™ Composite Warmer



Capacity to warm one flowable syringe

Capacity to warm six capsules

Silicone sleeve protects user from heat

Metal holder and sleeve are autoclavable

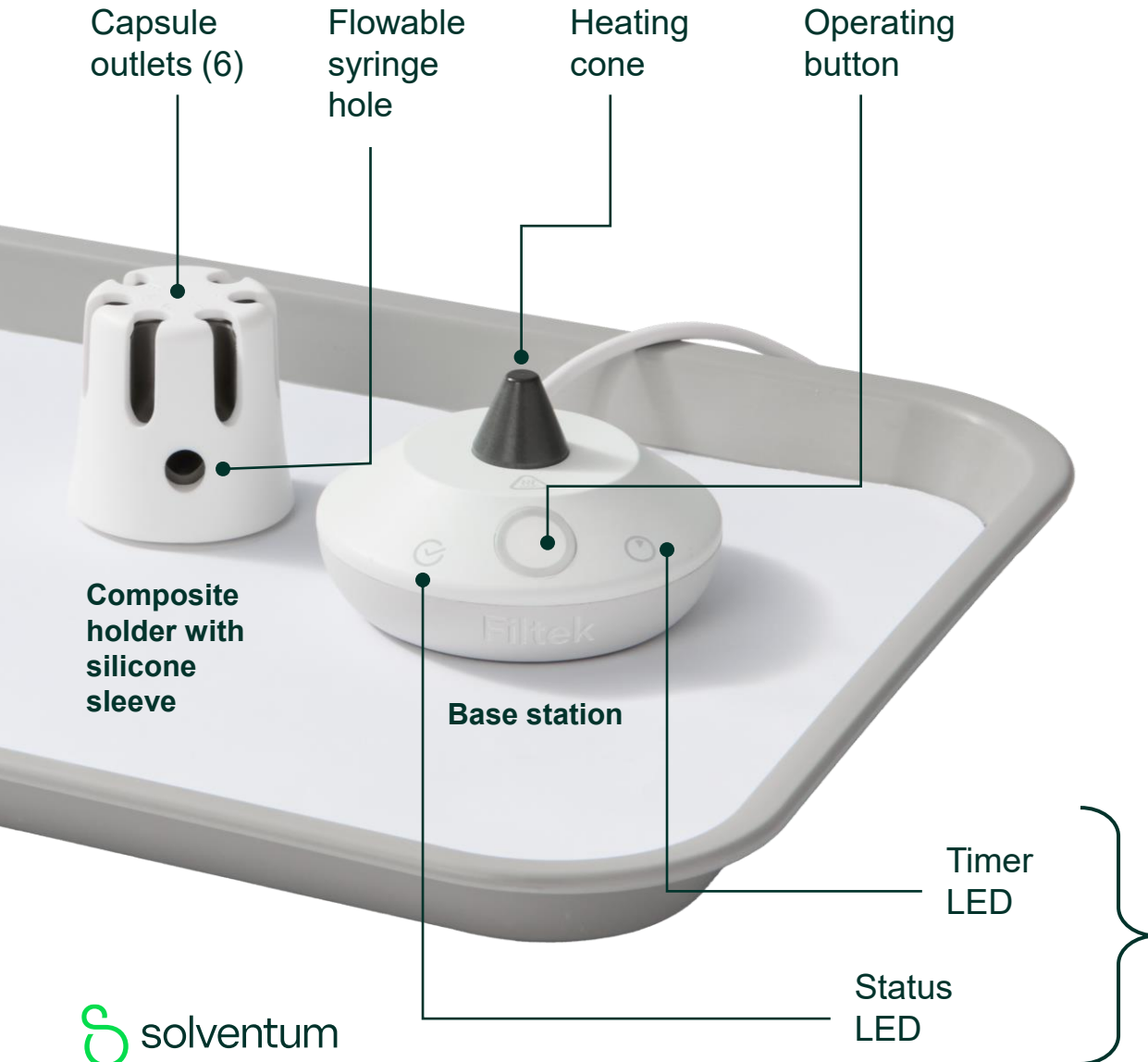
Fast, 10-minute startup time

Portable holder to be used at point of care

Two-minute timer to know when capsules are fully heated

Fast, easy one-button operation

# Technical specifications



## Solventum™ Filtek™ Composite Warmer

Initial warming time	10 minutes
Capsule warming time	2 minutes
Flowable syringe warming time	5 minutes
Footprint	3 inches (76 mm)
Weight	0.4 lb (190 g)
Portable	Removable holder maintains heat for use at point of care for at least 6 minutes
Capacity	6 capsules and 1 flowable syringe
Maximum heating temperature	70°C (158°F)
Warmer materials	<ul style="list-style-type: none"> <li>Aluminum holder and heating cone</li> <li>Silicone sleeve</li> </ul>
Cleaning and disinfection	<ul style="list-style-type: none"> <li>Holder and sleeve are autoclavable</li> <li>Base is wipe disinfected</li> </ul>
Operating voltage (power supply)	100–240 V 50/60 Hz
Power supply	USB-C (5V, 3A)



Device is operating/heating



Device has reached operating temperature



Timer is running



Device malfunction

# Which 3M™ Filtek™ Dental Restoratives can be safely warmed?



## Universal restoratives

- 3M™ Filtek™ Universal Restorative
- 3M™ Filtek™ Supreme XTE Universal Restorative
- 3M™ Filtek™ Easy Match Universal Restorative
- 3M™ Filtek™ Supreme Flowable Restorative



## Bulk fill restoratives

- 3M™ Filtek™ One Bulk Fill Restorative
- 3M™ Filtek™ Bulk Fill Flowable Restorative

## The science of safety

Solventum has performed rigorous testing to ensure the safety of pre-warmed Filtek composites for both clinicians and patients.



Solventum is the first to offer a dental composite cleared by the FDA for warming<sup>1</sup>



Biocompatible according to ISO-10993-1:2018 based on a review by a board-certified toxicologist



Minimal heat transfer to the pulp<sup>2,3</sup>

1. 3M™ Filtek™ Universal Restorative

2. Daronch M, Rueggeberg FA, De Goes MF, Giudici R. Polymerization kinetics of pre-heated composite. J Dent Res. 2006 Jan;85(1):38-43

3. Solventum Internal Data

# Dental Techniques with warmed Filtek Composites



## **Bioclear™ Method**

The Bioclear Method for injection molding is a minimally invasive technique that involves extruding warmed flowable and paste composite into clear matrices to create smooth contours and tight, anatomically correct contacts. Filtek™ Dental Restoratives that are indicated for warming are more fluid for easier handling and improve adaptation to tooth structure. **The Filtek Composite Warmer is compatible with the Bioclear method.**



## **Filtek™ Matrix**

The Filtek Matrix is a customized, patient specific matrix system for use in cases involving composite veneers and composite diastema closures. The Filtek Matrix is indicated for use to assist with molding dental composites for direct restorations. **Through its 6 capsule capacity the Filtek Composite Warmer is compatible for most Filtek Matrix cases.**

# Warmers suitable for the Bioclear™ Method



	Solventum™ Filtek™ Composite Warmer	Bioclear™ HeatSync Composite Warmer
Suitable for Bioclear injection molding technique	Yes	Yes
<b>Capacity</b>		
Individual composite capsules	6	16
Flowable syringes	1	2
Filled composite dispensers	0	2
<b>Heating time</b>		
Device warm-up	10 minutes	15 minutes
Composite capsules	2 minutes	6 minutes
Flowable syringes	5 minutes	6 minutes
<b>Product features</b>		
Temperature	70°C / 158°F max	68°C / 155°F
Size (base diameter)	7.6 cm (3 in.)	11.5 cm (4.5 in.)
Weight	0.4 lbs (190 g)	2.6 lbs (1,180 g)
Autoclavable	Yes	Yes

# Competitive Landscape



Name / Manufacturer	Micerium by EnaHeat (EMEA )	HeatSync by Bioclear	Calset Warmer by Addent Distributed also by VOCO	Therma-Flow™ by Vista Denta (USAC)	Filtek™ Composite Warmer
Holder autoclavable	No	Yes	Yes	No	Yes
Time to pre-heat device	55 min	15 min	20-30 min	30 min	Max .10 min
Time to heat composite	10 min	6 min	3-4 min	5-10 min	2 min (C) 5 min (S)
Temperature to pre-heat device	55°C	68°C	68°C	68°C	70°C
Weight (wo. Power supply)	640g	1147g	446g	962g	190g
Price	~450 \$	~1000 \$	~500 - 600 \$	~420 \$	~350 \$

# Pre-launch evaluation

The Filtek Composite Warmer's warming procedure is easy.

The Filtek Composite Warmer's warming procedure is fast.

The Filtek Composite Warmer device has a compact, lightweight design.

The Filtek Composite Warmer device is easy to clean and disinfect.

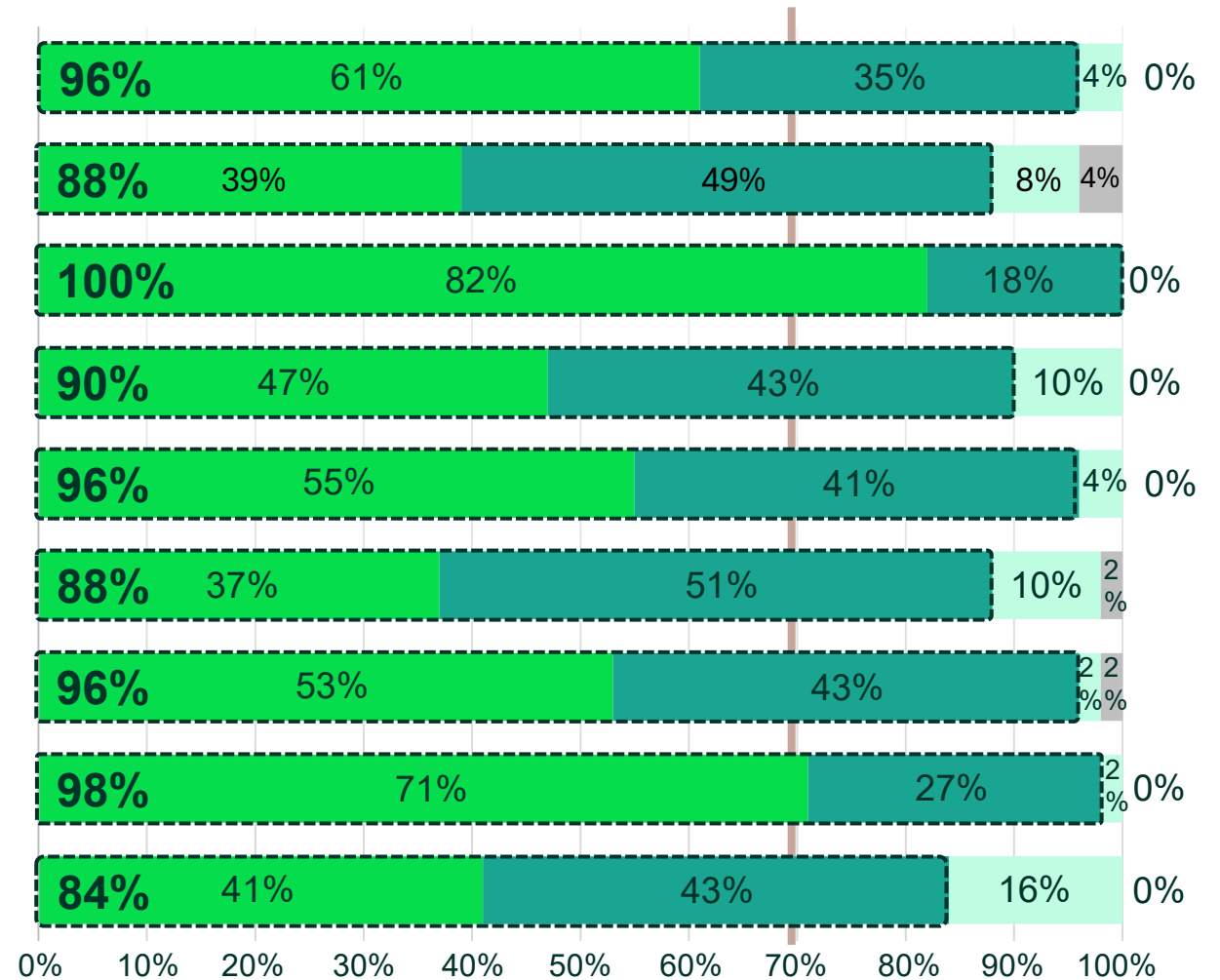
The Filtek Composite Warmer's base station is easy to clean and disinfect.

The Filtek Composite Warmer's composite holders are easy to clean and disinfect.

The Filtek Composite Warmer provides easy and intuitive one button operation.

The Filtek Composite Warmer holder can be easily transported due to its size and weight within the operatory.

I am overall satisfied with the Filtek Composite Warmer.



■ Strongly agree   
 ■ Agree   
 ■ Disagree   
 ■ Strongly disagree

# Pre-launch evaluation quotes

The charming “R2D2” of restorative dentistry  
- Germany

Good device, I'll buy it as soon as it's launched - Dr. Martin Ostermeier, Germany

**Small, handy** and very intuitive device - Thomas Meuer-Dabrowski, Germany

This device can help **increase the efficiency** of your practice - Dr. Gary Budman, NJ, USA

Very **easy to use**, therefore perfect starter device - Dr. Margaretha Bessenroth, Germany

**Easy to use.** Purchase depends on price - Dr. Wolfgang Pfannenstiel, Germany

**Easy to use**, compact and hence **easy to move around** and store  
- Dr. Resmi Nair, MA, USA

