



TECHNICAL REPORT

CALSET (COMPOSITE WARMER)

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The biggest nightmare for clinicians is to provide a leakage free composite class II restoration at the gingival margins. Despite of the advancement's in material science of packable composites, deep proximal box, little or no enamel in the gingival periphery of the proximal cavity makes the clinical situation more difficult to manage. The clinical difficulties like, lack of flow of packable composite, poor adaptation at the margins, distance away from the curing light, uncured composites left at the proximal box all leads to the postoperative sensitivity and recurrent caries.

CALSET a Composite Warmer for thermal assisted light polymerization addresses all these clinical challenges. This device heats the composite to two desired set temperatures such as 130°F (54°C) or 155°F (68°C) which increases the composite flow and adaptation to the internal morphology of the cavity preparation thereby eliminating the need for placing flowable composite at the gingival margin which is inherently a high shrinkage and a weak material. Clinical studies have already shown “that preheating of the composite results in significantly less microleakage at the cervical margin compared to a control or the use of a corresponding flowable resin”.

Heating the composite with the CALSET Warmer also dramatically decreases the curing time required for light polymerization. This critical change will increase the likelihood of adequate cure in deep cavity preparations. CALSET can shorten composite curing time by up to 80% and can increase the flow of packable composite by 68%.

CALSET comes with different options like 1. Standard composite compule tray. 2. Syringe tray option 3. Tri tray 4. Multitray 5. porcelain veneer tray. CALSET takes 10 minutes to pre-heat, and once the unit is warm, it takes 2-3 minutes to warm the composite.

With the added benefit of greater depth of cure of the restorative composite, increased chemical conversion, and ease of flow for easier dispensing into the cavity preparation, CALSET is an indispensable tool for better dentistry



Standard Composite Tray
Holds and warms 4 Composite Compules



Multi-Tray Accepts composite dispenser, 2 finishing instruments, 2 syringes and 4 composite compules



CALSET Tri-Tray Holds and warms 2 Finishing Instruments Holds and warms 3 spare Compules
Warms Compule in Composite Dispenser



Syringe Tray Holds and warms up to 7 Composite Syringes



Porcelain Veneer Tray Veneer Tray allows cementation using warm Composite.



Restoration Tray The indirect adhesive interface is one of the weak links in clinical bonding procedures. With the Restoration Tray, water released from the silane reaction can be quickly evaporated. For those wishing to cement with warm paste composite, there are two slots that hold most composite designs.



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