

# Stone Model Discrepancies

**Visual Appearance:** Voids on margin, powdery cusp tips on incisal edges on prepared tooth. “Golf-ball” appearance of stone model.

**Result:** Incomplete seating of indirect restorations.

## CAUSE

Tooth contact with impression tray, or gauze of double bite tray causes water to leach out of the tray, dehydrating the stone.

## SOLUTION

Instruct patient to bite passively in centric occlusion when using dual arch trays.

Fill tray with sufficient amount of material.

Cast not made according to model preparation guidelines and lacks detail.

Provide as much information as possible to the lab. Indicate type of impression material (polyether or VPS) and whether or not the impression has been disinfected.

## VPS

Hydrogen gas emission.

Follow manufacturer’s instruction for casting time.



Stone Model with Hydrogen Evolution Voids



Stone Model with Powdery Cusp Tips

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