

Matchmaker CTE Buffer

Instructions for Use

INDICATIONS

Matchmaker CTE Buffer is used as an intermediary layer between the alloy and the ceramic. It helps to control the thickness of the metal oxide layer and compensates for differences in the coefficients of expansion between the alloy and porcelain. Use with alloys that have heavy oxide formation and/or coefficient of expansion near the extremities of the acceptable range.

CONTRA INDICATIONS

Do not use for alloys with coefficients of expansions less than $13.8 \cdot 10^{-6} \text{ K}^{-1}$ and greater than $14.9 \cdot 10^{-6} \text{ K}^{-1}$. If Matchmaker CTE Buffer does not solve the bonding problem change to a more suitable alloy.

Preparing the metal framework

Prepare the metal framework in accordance with the manufacturers instructions. Stir well before use. Apply the Buffer in as thin a layer as possible to mask the framework completely.

Care: Do not re-moisten once the Buffer has dried. Close the cap firmly after use.

FIRING

Start temperature 550°C	Drying time	6 minutes
Temperature rise 80°C/min	Vacuum	Yes
High Temperature 980°C	Hold Time	1 minute

APPEARANCE AFTER FIRING

After the firing the Matchmaker CTE Buffer will have a slightly shiny surface. The colour after firing depends on the constituents of the alloy but is likely to be yellowish or greenish.

Opaque firing and further processing.

Fire Propaque or Matchmaker LF Paste Opaque in accordance with the instructions for use.

HEALTH & SAFETY

Use in a well ventilated area. Wash off any material that comes into contact with skin. Wash using soap and water. If the material comes into contact with eyes flush with large volumes of water for at least 20 minutes. Seek medical advice. Ingestion. Wash out mouth thoroughly. Seek medical advice. Inhalation. Remove the person to fresh air. If symptoms persist seek medical advice.