

# MET-ETCH™

## *Dental Lab Metal Etching Gel*

Met-Etch is an etching gel used to etch the wings of Maryland bridges prior to bonding. Most non-precious, semi-precious, and gold alloys can be etched successfully with the Met-Etch. However, alloys that have a high silver or copper content, as well as chrome cobalt, will not etch properly (see other side of this page for details). It is also recommended that gold alloys not be used for posterior Maryland bridges. For professional dental use only.

**Precautions:** Met-Etch is an acid etching gel that contains Hydrochloric and Nitric acids. **This product is very corrosive and can cause burns to the skin and eyes.** To prevent contact with these areas, safety glasses and gloves should always be worn at all times when working with this material. If accidental contact occurs; flush area immediately with water and consult a physician. See MSDS for more information.

## **DIRECTIONS FOR USE WITH NON-PRECIOUS ALLOYS**

### **1) SHAKE WELL BEFORE USE.**

3) Apply a drop of Met-Etch on the area to be etched and allow it to set at room temperature (25°C/78°F) until the gel turns green. This process usually takes about 20-25 minutes.

4) Rinse the gel from the bridge with tap water. Place in a beaker filled with distilled water and clean ultrasonically for a 3 minutes.

*(over)*

# DIRECTIONS FOR USE WITH GOLD ALLOYS

1) **SHAKE WELL BEFORE USE.**

3) Apply a drop of Met-Etch on the area to be etched and allow it to set at room temperature until the gel turns brown. Depending on the type of alloy, this process usually takes anywhere from 1-5 minutes.

4) Rinse the gel from the bridge with tap water. Place in a beaker filled with distilled water and clean ultrasonically for a 3 minutes.

## *ALLOY TYPE                      ETCH QUALITY                      COMMENTS*

<i>ALLOY TYPE</i>	<i>ETCH QUALITY</i>	<i>COMMENTS</i>
Non-Precious (Ni, Cr, Be)	Excellent	Etches the best
Non-Precious (Ni, Cr)	Good	Heavier oxide than Be alloy
Gold (over 60%)	Excellent	
Gold (under 60%)	Good	Heavier oxide than 60%+
Palladium (without Cu)	Poor	Not recommended to etch
Palladium (with Cu)	Poor	Not recommended to etch
Chrome-Cobalt	Poor	Not recommended to etch