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## **Bench Jewelers Guide to Working with Diamond Hybrid®**

Setting with Diamond Hybrid® is very straightforward – if you have set CZ or Emerald...you can set Diamond Hybrid®.

Due to its amorphous diamond infusion, Diamond Hybrid® is stronger, harder and more durable than CZ or Emerald but if you take the same care in setting it, you should experience no problems.

**What is it?:** Diamond Hybrid® is a combination of a hand cut, high-end core infused with an outer layer of extremely pure man-made amorphous diamond (pure carbon with -88% diamond bonds). Just like a cultured pearl uses an inner shell bead with an outer layer of pearl nacre, the Diamond Hybrid® combines an inner core with an outer layer/infusion of extremely pure amorphous diamond.

**Top problem:** The number one problem we have had with jewelers setting Diamond Hybrid®...they often forget that is not a diamond, which creates problems during **polishing**. Do not use metal polish that contains diamond grit, pumice or use any aggressive types of rouge near the Diamond Hybrid® - if so you will run the risk of scratching the Diamond Hybrid®. Diamond Hybrid® is approximately as tough as sapphire, thus softer than silicon carbide (moissanite) and diamond. We highly recommend you pre-polish the prongs before completing the setting, in order to minimize any potential danger of scratching the stone during polishing.

**Identification:** Diamond Hybrid® will not test positive on a thermal diamond tester. Amorphous diamond, which is roughly 88% diamond bonds, has a different heat signature than gem diamond which is 100% diamonds bonds.

**Heat resistance:** Great care must be taken when employing any work on setting involving torch work. If you apply direct heat to the Diamond Hybrid® you will run the risk of shattering the core and potentially discoloring the amorphous diamond.

**Setting princess stones:** Since the corners are sharp, we recommend you soften the corners of the princess cut at the point where it will meet with the prong or metal for your setting. This will greatly reduce the chance of chipping during setting.

If you have other questions on Diamond Hybrid® or need other technical advise, please feel free to contact us via our website at [www.diamondhybrid.com](http://www.diamondhybrid.com).

Diamond Hybrid is our registered trade mark.