

Induction silver brazing with induction heating

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silver brazing with induction heating Induction Silver brazing actually uses not pure silver, but instead a silver alloy containing nonferrous metal to bond two pieces of metal together. The process is typically used to join close-fitting parts that require precise and durable bonds, such as those in the tool manufacturing industry and in the creation of high-performance bicycles. Instructions 1 Clean the metal that is about to be joined using a clean cloth and mineral spirits. If you are joining metal tubes, be sure to clean the inside of the tube as well. 2 Apply induction brazing flux, using a brush, to any areas that are you are joining. Ensure you are wearing disposable gloves so that you dont get any flux on your skin. 3 Assemble metal pieces using the metal clamps if necessary. Parts that will fit together finger tight or parts that can be safely placed level on a workbench can be joined with these. 4 Ignite the torch and adjust the flame to a manageable level at the center of the area to be joined. The flux should turn clear when you are ready to start brazing. Start to apply the alloy brazing rod just above the flame to the area to be joined. The torch should be pointed in the direction you want the liquid metal to flow. 5 Clean the flux off after allowing the object to cool. Inspect the joint to ensure a strong connection. If joint is flawed, you may need to repeat the process of brazing any remaining gaps. silver brazing with induction heating

