



*Committed to providing reliable technology and solutions to support your research needs,  
trust MMR Technologies....  
... the variable temperature solid state characterization experts!*

## WHAT IS A SAMPLE MOUNTING KIT?

### INTRODUCTION

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Joule-Thomson refrigerators have a small area that provides temperature control for mounted samples. This area is approximately 10 mm x 12 mm in size. Any sample within this area, depending on the thickness of the sample and the material of the sample, should be within 2 degrees of the setpoint temperature of the variable temperature stage. The challenge is to mount the sample in a manner that provides ideal thermal conductivity between the sample and the stage without damaging or changing the properties of either the stage or the sample.

MMR Technologies offers sample mounting kits for each type of variable temperature control system. These kits are customized to the typical experiments done on these systems and provide an easy, convenient tool for mounting samples into the analysis system.

### SAMPLE MOUNTING KITS

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There are several different sample mounting kits, depending on the system you are using. All of these kits contain:

- Small vial of Dow Corning 340 Thermal Grease - for sample mounting to the stage
- Small vial of Dow Corning Vacuum Grease - for ensuring good vacuum seal on all o-rings and gasket seals in the vacuum system
- Sandpaper
- Mini connector pins - to make permanent connections between the sample and any spare pins on the refrigerator when electrical connections are required
- Copper and manganin wire
- Sample Mounting Kit manual

In addition to the above, the kits may include additional special mounting clips and additional sample mounting pads depending on the sample the kit was ordered for.

## FURTHER QUESTIONS

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If you have further questions, please do not hesitate to contact MMR Technologies, Inc.:

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