



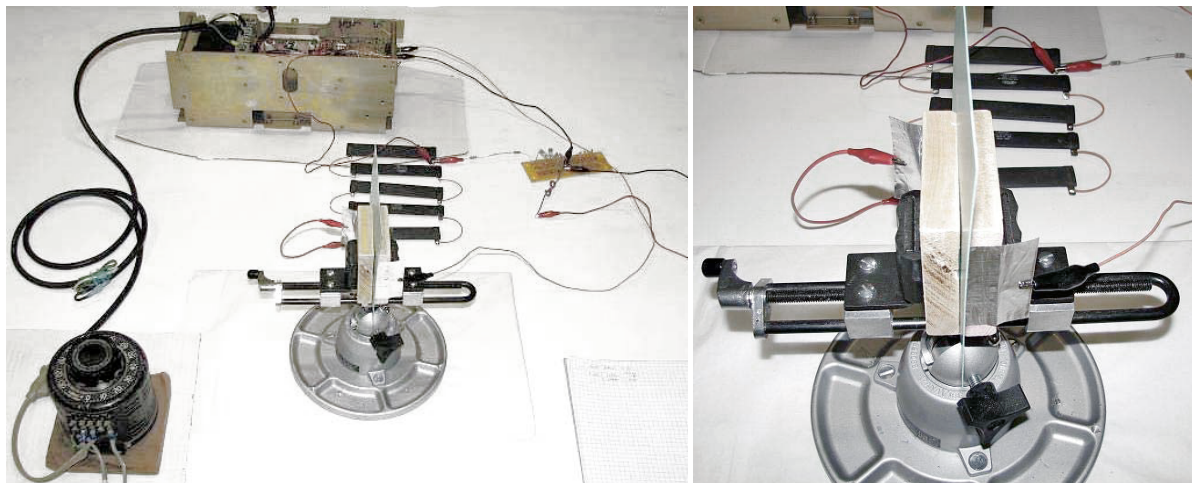
### Introduction

360° Test Labs has been retained to perform hi-pot tests upon two samples of three different gasket materials, as shown in the photo to the right. The materials are labeled ...000, V.. and M... The materials are to be tested to 2500 VDC, and the leakage current must be less than 5 milliamperes.



### Test Setup

A custom hi-pot test fixture was fabricate specifically for the materials provided. A high-voltage power supply was connected to test probes mounted on each side of each sample, then the voltage was raised to at least 2500 VDC while the leakage current was monitored. Precision digital multimeters were used to perform the voltage and current measurements. The ambient temperature was 77° F and the relative humidity was 28%. The photo below shows the test setup.



### Measurement Results

The following table shows the measured leakage current taken over a minimum of 60 seconds with 2500 VDC applied to each of the six samples.

Sample #	Material	Thickness (in.)	Leakage Current (uAmps)
1	CMP4000	0.029	<0.1
2	CMP4000	0.029	<0.1
3	V69	0.031	<0.1
4	V69	0.0315	0.1
5	M5201	0.029	<0.1
6	M5201	0.029	<0.1

The contact patch size on each side of the samples was 2.5" x 3.25", a total area of 8.125 in<sup>2</sup>. The maximum leakage current measured was ~0.1 microamperes at 2500 VDC.

### Conclusion

All six samples of gasket material withstood 2500 VDC for at least 1 minute. At no time did there appear to be any breakdown.