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**Applied  
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## Diamond Window—Case Study Brief

**Application**– Magnetic microscopes for semiconductor failure analysis

**Problem**– Breakage with sapphire windows, causing the scope to shut-down and damage to the magnetic sensor

**Solution**– Diamond window 2mm diameter by .025 thick

**Finding**- The diamond has proven to be much more durable than sapphire and could be made thin enough enabling the window to be close to the sample

The price of the diamond was less than 20% higher than sapphire, enabling the customer to switch products and make a significant improvement in performance