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The purpose of the test

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is to measure the hermeticity of sealed packages. Method 1014 includes leak rate limits for different ranges of internal package volumes. If a package has a leak and it is placed in a helium pressurized vessel (bomb), some of the pressurized gas will enter the package through the leak channel.

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We found that the hermeticity levels typically used to avoid moisture in electronic packages can be insufficient when targeting control of long-term drift related mechanisms. View Show abstract

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For example, the helium leak rate must be less than  $5 \times 10^{-8}$  atm cm<sup>3</sup> / second for small packages

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(volumes less than 0.4 cc). This basic leak rate has become gospel and is pervasive among numerous part manufacturers and independent labs.

### **Keep it Tight: Understanding Hermeticity**

The technology of hermeticity addresses the transfer of fluids in and out of sealed enclosures. This technology is based on

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physics and chemistry,  
and (like many such  
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Hermeticity Testing (also known as Fine and Gross Leak) is used to determine the effectiveness of the seal in microelectronic component packages. If the package seal is damaged or defective, moisture and other contaminants can enter into the package freely and degrade the long-term reliability.

**Six Sigma:  
Hermeticity Testing**

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The exact definition of hermetic is defined in TM 1014 para. 3.1.1.2.1, which lists the failure criteria for a given package volume in terms of an air equivalent leak rate.

When a cavity sealed microelectronic package passes both gross and fine leak test per TM 1014 the part is deemed “hermetic”.

When it fails it’s known as a “leaker”.

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understanding initial hermeticity testing requirements and the subsequent limitations of these methods when applied to new package types.

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