

Medical Device Packaging Developments From MET
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Leak Testing of Glove Boxes and Isolation Chambers

The identification of leaks in glove boxes and isolation chambers is vital. MET supplies equipment and services to test to ISO 10648-2 : Containment enclosures -- Part 2: Classification according to leak tightness and associated checking methods

Typically, pressure decay measurements are used for assessing the leak rates of containment enclosures, and helium is used as a trace gas for the detection of leak location. The large volume of a chamber and flexibility of its components, such as gloves, can pose challenges for the pressure decay test. Similarly, temperature changes can have a significant effect on results. When using helium the clearance time between tests can be significant.

Hydrogen testing can provide a useful alternative. Hydrogen is rapidly dispersed and its use in testing offers a fast, effective alternative for the quantitative measurement and location of leaks. MET can apply the H2000 leak tester to safely and accurately test chambers finding leaks in the most awkward of locations.

Medical Engineering Technologies Ltd's leak testing equipment and services are complimented by our medical device testing laboratory.

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