

VIC MIL SPEC Compliance

MIL-STD-1441,

MIL-STD-883,

MIL-STD-750

1/ Condition J cannot be used for packages whose internal volume is $< 0.001 \text{ cm}^3$. 2/ Condition D cannot be used for packages whose internal volume is $< 1 \text{ cm}^3$.

3/ Condition J may be used as a single test for devices with an internal cavity volume of $> 0.4 \text{ cm}^3$ provided the specified requirements can be satisfied by a leak rate of $1 \times 10^{-6} \text{ atm cm}^3/\text{s}$.

4/ Condition B and G2 may be used for small cavity devices that contain approved getting material.

6.2.2 Precautions. The following precautions shall be observed in conducting the fluorocarbon gross leak test: a. Perfluorocarbons fluids shall be filtered through a filter system capable of removing particles greater than one micrometer prior to use. Bulk filtering and storage is permissible. Liquid which has accumulated observable quantities of particulate matter during use shall be discarded or reclaimed by filtration for re-use. Precautions should be taken to prevent contamination.

b. Observation container shall be filled to assure coverage of the device to a minimum of 2 inches (50.80 mm). c. Devices to be tested shall be free of foreign materials on the surface, including conformal coatings, and any markings which may contribute to erroneous test results.

d. Precaution should be taken to prevent operator injury due to package rupture or violent evolution of bomb fluid when testing large packages.

e. Packages with less than 0.01 cm^3 internal free volume shall be tested, with extremely careful observation.

7. Test condition D. bubble test (type II indicator fluid as specified in table 1071-II.) (NOTE: These fluids replace thylene glycol as a medium for the gross leak bubble test.) Packages with less than 0.01 cm^3

internal free volume shall be tested with extremely careful observation.

TABLE 1071-IV. Test limits for radioisotope fine leak method.

Volume of package (cc)	Q_s
< 0.05	5×10^{-9}
$> 0.05 < 0.5$	1×10^{-8}
$> 0.5 < 10.0$	5×10^{-8}
$> 10.0 < 20.0$	5×10^{-8}