



MASS SPECTRAL ANALYSIS (IGA) TESTING SERVICES: COMMERCIAL/BIO-MEDICAL

Mass Spectral Analysis (IGA) Testing

This test is performed using MIL-STD 883/750, Method 1018 for parts with an internal gas volume up to 100cc. Modifications to the procedure and/or device testing conditions are permitted to achieve optimal analysis for the specific client application, process development, R&D material evaluation and failure analysis. *Results obtained under this test method and its associated modifications are NOT subject to inclusion in the annual retention report to DLA Land and Maritime. All records are confidential.*

Mass Spectral Analysis (IGA) Testing for Gas Cylinders

This test method quantitatively measures the process sealing gases sampled from sealing chambers and/or gas supply lines using a specially prepared sampling cylinder.

Quantity of Test Articles Submitted:

Prebake at Temp (°C):                      Duration (hr):

Pass/Fail Limit:

Primary gases and expected concentrations:

MILITARY MASS SPECTRAL ANALYSIS TESTING SERVICES: DLA LAND AND MARITIME

*QML or QPL parts exceeding the internal gas volume specification of 0.01cc – 20cc are not accepted.*

This test procedure is performed exclusively for testing hermetic devices in accordance with MIL-STD 883 or 750, Test Method 1018 per the condition of “suitability” status granted by DLA Land and Maritime. Modifications to the procedure and/or device testing conditions are not permitted. All results obtained under these test methods are subject to inclusion in the annual retention report to DLA Land and Maritime and all records regarding these tests are subject to audit and inspection by the US Government. *ALL PARTS OF THE LABORATORY SUITABILITY PROGRAM WILL BE INCLUDED IN OUR RETENTION REPORTING TO DLA LAND AND MARITIME.*

MIL-STD 883-1, Method 1018.10 Gas Analysis

Pass/Fail criteria will be reported for water (5000 ppm or greater), Oxygen (10,000 ppm or greater), Fluorocarbons (50 ppm or greater) and a 15% pressure differential among like units. All parts will be prebaked at 100°C for 16 to 24 hours.

MIL-STD 750-1A (with change 2), Method 1018.6 Gas Analysis

Pass/Fail criteria will be reported for water (5000 ppm or greater), Oxygen (10,000 ppm or greater), Fluorocarbons (50 ppm or greater) and a 15% pressure differential among like units. All parts will be prebaked 100°C for 16 to 24 hours.

Other (MIL-STD 833, Method 1008 Special Bake)

Quantity of Test Articles Submitted:

