



INSPECTION • ANALYSIS • TESTING

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Attn: Component Analysis Group
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Component Analysis Submission Form

Client: \_\_\_\_\_ Date: \_\_\_\_\_
Company: \_\_\_\_\_ P.O. No.: \_\_\_\_\_
Address: \_\_\_\_\_ Rel No.: \_\_\_\_\_
Tel: \_\_\_\_\_
E-mail: \_\_\_\_\_ Fax: \_\_\_\_\_

Package Type(s): \_\_\_\_\_ # of Samples: \_\_\_\_\_
Do samples require ESD precautions during analysis? [ ] YES [ ] NO

ANALYSIS REQUESTED

(Discussion of analysis is recommended prior to quotation and submission)

[ ] Destructive Physical Analysis (DPA) per Mil-Std or Customer Specification
[ ] Failure Analysis (Consultation required prior to analysis.)
[ ] Surface/Material Analysis
[ ] Construction Analysis
[ ] Other

METHODS OF ANALYSIS

- [ ] Internal Vapor Analysis™ (IVA)\*
[ ] Optical Microscopy
[ ] Fluorescence Microscopy
[ ] Scanning Acoustic Microscopy (SAM)
[ ] Field Emission SEM (FESEM)
[ ] Scanning Electron Microscopy (SEM)
[ ] Energy Dispersive X-ray Spectroscopy (EDS)
[ ] Auger Elemental Spectroscopy (AES)
[ ] Micro Fourier Infrared Spectroscopy (FT-IR)
[ ] GC/MS
[ ] X-Ray Fluorescence (XRF)
[ ] Radiography\*: [ ] Film [ ] Real Time
[ ] Radiography: Commercial [ ] Film [ ] Real Time
[ ] Radioisotope Leak Testing (Kr-85)\*
[ ] Helium Fine/Perfluorocarbon Gross Leak
[ ] Leak Site Identification
[ ] Dye Impregnation/Penetrant
[ ] Solderability
[ ] Particle Impact Noise Detection (PIND)\*
[ ] SEM Metallization Inspection\*
[ ] Reflow/Moisture Sensitivity
[ ] Counterfeit Device Screening
[ ] Plasma/Chemical I.C. Deprocessing
[ ] Chemical/Mechanical Decapsulation
[ ] Bond Strength/Ball Shear/Die Shear
[ ] Cross-Sectional Analysis
[ ] Solder Melting Point Verification
[ ] Damp Heat Storage
[ ] High/Low Temperature Storage
[ ] Consulting Services
[ ] Other:

\*As part of the Laboratory Suitability program, ORS must include this data in its retention report to DLA Land and Maritime.

[ ] Request phone consultation upon receipt.

REPORT FORMAT

[ ] Electronic Report (.pdf file format) [ ] Original Hard Copy Report [ ] Images Only
[ ] USB Flash Drive [ ] E-mail [ ] CD-ROM

Return Shipment

UPS: [ ] Red [ ] Blue [ ] Ground
Fed Ex: [ ] Pr. 1 [ ] Std. [ ] Econ.
Other:
Acct. #: \_\_\_\_\_

Additional Instructions or Restrictions

## **DESCRIPTION OF TEST METHODS**

**SOP MEL-1012 DLA Land and Maritime Suitability for Military Devices - SEM Metallization Inspection**  
**SOP MEL-1017 DLA Land and Maritime Suitability for Military Devices - Particle Impact Noise Detection**  
**SOP MEL-1018 DLA Land and Maritime Suitability for Military Devices - Internal Gas Analysis**  
**SOP MEL-1071 DLA Land and Maritime Suitability for Military Devices - Radioisotope Hermetic Seal**  
**SOP MEL-2076 DLA Land and Maritime Suitability for Military Devices – Radiography**

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These test procedures are used exclusively for testing of devices in accordance with current versions of Mil-Std 883 and Mil-Std 750 per the conditions of "Suitability" status granted by DLA Land and Maritime. No variations are permitted to the procedure nor to the device test conditions. Furthermore, all tests performed are subject to inclusion in ORS' annual retention report submitted to DLA Land and Maritime. All records regarding these tests are subject to audit and inspection by the U.S. Government.

## **SOME IMPORTANT REMINDERS**

- Please provide a valid Purchase Order and, if requested by your company, a Release Number.
- Please be sure to specify all and any "Additional Instructions or Restrictions" that should be followed during sample handling, testing or shipment.
- Unless otherwise requested, test reports and samples will be returned via UPS Ground.
- Devices subjected to Radioisotope Hermetic Seal testing may be retained by ORS until suitable background levels are achieved before devices may be returned to the client.
- All shipping and handling fees associated with the transportation of samples to and from our testing facility, as well as special courier fees for expediting test reports, are the responsibility of the client.
- Standard tests and analyses are typically completed within 5 - 7 working days. Methods development and extraordinary applications may extend this time frame.
- On-site visits are encouraged and we welcome your personal involvement during sample analysis.
- Please contact our Sales Department for pricing information.
- For further technical information, please contact the Component and Failure Analysis Group at (315) 736-5480.