



Alpha Spectra, Inc.

Scintillation Detectors

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ASI Recommended Packaging and Shipping Instructions

Scintillation detectors are fragile instruments. This document provides recommended packaging instructions for successfully shipping our scintillation detectors. If after reading this document you still have questions, please do not hesitate to call us.

Scintillation detectors can be damaged by either mechanical or thermal shock. The packaging procedures provided here address both of these issues.

1. Place the detector in a plastic bag and seal the bag.
2. Wrap the detector with 1" bubble wrap so that the detector is covered on all sides with a minimum of 3" of bubble wrap.
3. Prepare an "inner" carton with a minimum of 4" of "popcorn" foam on the bottom of the box. Place the detector on top of the popcorn foam. Fill the rest of the inner box with popcorn foam. Be sure that a minimum of 4" of foam between the detector and the inner walls of the box. **Important:** Pack the popcorn foam in the inner box well enough that the detector will not move around in the inner box during transit.
4. Prepare an outer box large enough that the wall between the inner box and the outer box has at least a 4" gap that is filled with popcorn. Again, pack the popcorn foam into the gap between the inner box and outer box well enough that the detector will not move around in the inner box during transit. Be sure that the inner box is well-centered in the outer box. Secure the lid with tape.
5. Place the following labels on the outside of the box.
 - 1) Fragile Material – Contents subject to damage due to Thermal and Mechanical Shock. UPON RECEIPT DO NOT OPEN THIS CONTAINER FOR 24 HOURS.
 - 2) FRAGILE THIS SIDE UP. Place this label on all four sides.
6. We recommend that all shipments be sent by 2nd day air due to better handling.

We understand that most customers do not have foam in place equipment. However we highly recommend that you use "foam in place" equipment instead of popcorn to set the detector into a thermally set mold. **Do not use the detector for the form** since the exothermic process may fracture the crystal material. We recommend using a wooden form to create a cavity in the mold to simulate the shape of the detector. Be sure that when the detector is placed inside the mold that it is completely immobilized and that it will not shift during transit. We encourage our customers to save the packaging materials that Alpha Spectra, Inc. provides in our original delivery.