

AN/UDM-2 RADIAC CALIBRATOR SET
NSN 6665-00-179-9037

Isotope and Activity: Sr-90, 6.66E+09 Bq, (180 mCi).

Proper Shipping Name/Hazard Class/UN Number: Radioactive Material, Type A Package, Special Form/7/UN 3332.

Chemical and/or Physical Form: Sr-90 ceramic microspheres, solid.

Construction Form: Special form.

Package Requirements:

Packaging: USA DOT 7A TYPE A.

Package Label: Either two Radioactive White I labels or two Radioactive Yellow II labels affixed to opposite sides of the package and two Cargo Aircraft Only labels. Do not affix labels to the top or bottom of the package. Complete the required information on the Radioactive White I or Radioactive Yellow II labels used.

Package Marking: All markings shall be at least ½” in height.

- Mark the package “RQ, Radioactive Material, Type A Package, Special Form, UN3332”
- Mark each specification 7A packaging on the outside “USA DOT 7A Type A.”
- The gross weight shall be marked on the package.
- Full name and address of the shipper and the consignee.
- If an overpack is used, mark the statement “INNER PACKAGE COMPLIES WITH PRESCRIBED SPECIFICATIONS.” In addition, ensure that all required markings, labels and communications appearing on the interior package are reproduced on the outside of the overpack.
- Exports shall be marked with the letters “USA.”

Survey Requirements:

Radiation Survey: Required prior to shipment.

- For use of Radioactive White I Labels: The maximum radiation level at any point on the external surface should be less than or equal to 0.005 mSv/hr (0.5 mrem/hr). The

Transport Index (T.I.) should not be more than 0 (if the measured TI is not greater than 0.05, the value may be considered to be zero).

- For use of Radioactive Yellow II Labels: The maximum radiation level at any point on the external surface should be greater than 0.005 mSv/hr (0.5 mrem/hr) but less than or equal to 0.5 mSv/hr (50 mrem/hr). The T.I. should be more than 0 but not more than 1.

Contamination Wipe Survey: Performance of the package wipe survey and receipt of analysis results are required prior to shipment.

- The non-fixed surface contamination on the external surface of the package shall not exceed 22 dpm/cm² (beta).

Additional Requirements: Shipment **is not** permitted aboard passenger-carrying aircraft.

Vehicle Placard: Not required.

Shipping Paper Documentation: You shall certify this radioactive material for transportation by having a notice enclosed in or on the package, included with the packing list, or otherwise forwarded with the package. This notice will include the name of the consignee and the statement:

“This is to certify that the herein-named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.”

For Cargo Aircraft shipments only, add the following statement:

“This shipment is within the limitations prescribed for cargo aircraft only.”

The shipping papers or if IATA applies, the “Shipper’s Declaration for Dangerous Goods” shall list the following:

- The letters “RQ” placed before the Proper Shipping Name.
- The Proper Shipping Name.
- Hazard Class Number.
- UN Number
- Subsidiary Risk(s) corresponding to the subsidiary risk labels applied.
- Quantity and type of packing: (i.e., name or symbol of each radionuclide;

number of packages (of same type and content); type of package (i.e., USA DOT 7A TYPE A) ; and activity in Becquerels or multiples thereof (units used must be clearly indicated) in each package, including packages in overpacks.

- When an overpack is used, the wording “overpack used” must be inserted on the shipping paper or declaration form immediately after all the relevant entries relating to the packages in the overpack.
- Category of the Package (i.e., Yellow-II); the Transport Index and the dimensions of each package, overpack or freight container.

- Emergency response telephone number.

- Special form approval certificate attached.

- Continuation sheets shall be marked Page 1 of 3 pages, Page 2 of 3 pages, etc., as applicable.

Additional Comments:

- Retain original DOT 7A TYPE A metal casing, packaging and foam pack received for use when re-shipping the AN/UDM-2 RADIAC Calibrator Set.

- DOT 7A Type A packages shall be sealed with fiber tape.

- There is a maximum limit of 30 each AN/UDM-2 RADIAC Calibrator Sets that you may ship per package.

- You must notify (within 24 hours) CECOM Directorate for Safety and the receiving installation upon shipment and receipt of the AN/UDM-2 RADIAC Calibrator Set.

- CECOM Directorate for Safety: Voice: Comm: (732) 427-3112, DSN: 987-3112; Fax: Comm: (732) 542-7161 or (732) 532-6403, DSN: 992-6403.