

Description

Needle sources are designed for creating a point source inside a cloud chamber for demonstrating alpha and beta radiation tracks. Radioactive material is deposited onto the eyelet of a needle which is mounted on a test tube stopper. Needle sources are available in three isotopes at fixed activities:

- Pb-210 - 0.01 μCi (0.37 kBq)
- Po-210 - 0.01 μCi (0.37 kBq)
- Sr-90 - 0.01 μCi (0.37 kBq)

The stopper is placed into a test tube for protection during shipping and storage.

The maximum deviation of the delivered activity from the nominal values listed is $\pm 20\%$. Needle sources are not available for a secondary calibration. Activities will not exceed the U.S. NRC Exempt Quantity limit.

A special source specifically for Physics Enterprises' Diffusion Cloud Chamber is also available upon request.