

Ambient Dose Filter

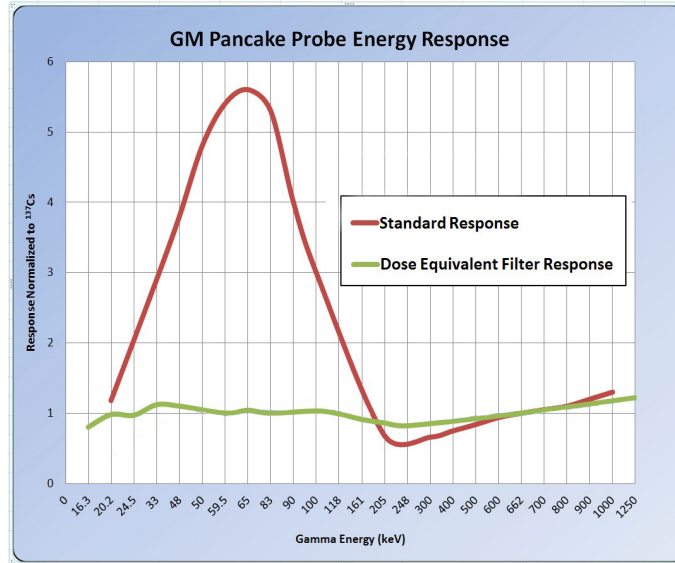
Radiation Detection for a Safer World



Ludlum Measurements, Inc.



Ambient Dose Filter



Introduction

Ludlum offers an energy compensation filter that flattens the energy response of its popular Model 44-9 GM pancake detector and Model 26 Series integrated friskers to facilitate measuring Ambient Equivalent Dose (Sieverts).

As many know, the venerable GM pancake has a significant over-response at lower energies between approximately 20 to 160 keV (see red line in graph above). Any dose measurements taken with an unfiltered GM pancake detector would thus have unacceptable errors at these lower energies. The dose filter developed by Ludlum flattens the response to within $\pm 20\%$ referenced to ^{137}Cs (662 keV) over an energy range of 20 keV to 1.2 MeV for Ambient Dose Equivalent.

Whenever dose measurement is desired, the filter simply snaps on across the face of any Ludlum Model 44-9 detector, Model 26-1 integrated frisker, or Model 26-3 integrated frisker. The filter can then be easily removed to resume measuring contamination (cpm or Bq).

The dose filter can be purchased separately or together with a new Model 44-9 detector or Model 26 Series instrument. The table lists the available purchasing options.

A complete test report can be reviewed on our website (www.ludlums.com) on "Downloads" tab on the respective product pages, which can be found by typing "dose" in the search box.

Note: The dose filter fits the Model 44-9 Series detectors from serial number 97000 and up. It will not fit the Model 44-9-13 or older units unless modified.

Description	Part Number
Ambient Dose Filter	2002-1050
Model 44-9DOSE (Model 44-9 with dose filter installed)	47-3789
Model 26-1DOSE (Model 26-1 with dose filter installed)	48-4007
Model 26-3DOSE (Model 26-3 with dose filter installed)	48-4233

Model 44-9DOSE



Model 26-1DOSE