

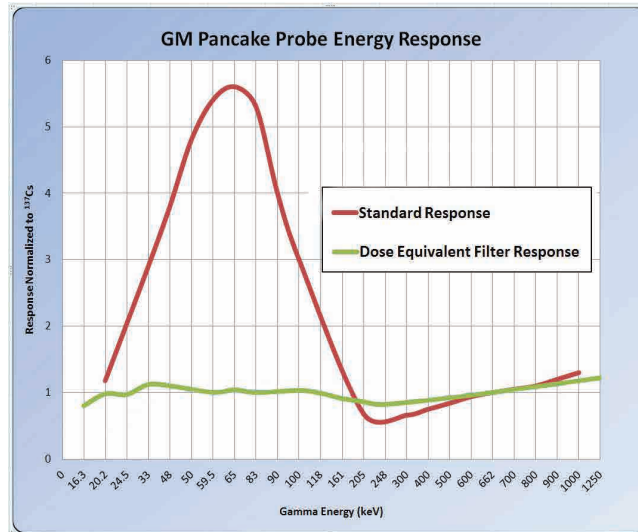
# Ambient Dose Filter



Ludlum Measurements, Inc.



Ambient Dose Filter



## Introduction

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

The GM pancake has a significant over-response at lower energies between approximately 20 to 160 keV (see red line on graph above). Any exposure or 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 <sup>137</sup>Cs (662 keV) over an energy range of 20 keV to 1.2 MeV.

The filter simply snaps on across the face of the detector whenever a dose measurement is desired. The filter can then easily be removed to measure contamination (cpm or Bq).

The dose filter can be purchased separately or together with a new Model 44-9, Model 26-1, or Model 26-3.

A complete test report can be reviewed on our website ([www.ludlums.com](http://www.ludlums.com)) on the "Downloads" tab on the respective product pages. Type "dose" in the search box to quickly find the relevant pages.

*Note: This 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
<b>Ambient Dose Filter</b>	2002-1050
<b>Model 44-9DOSE</b> <i>(Model 44-9 with dose filter)</i>	47-3789
<b>Model 26-1DOSE</b> <i>(Model 26-1 with dose filter)</i>	48-4007
<b>Model 26-3DOSE</b> <i>(Model 26-3 with dose filter)</i>	48-4233

Model 44-9DOSE

Model 26-1DOSE

