

# Film Dosimeter

## Reliable Exposure Readings



### Features:

- Establishes a permanent record of exposure
- State-of-the-art accuracy and reliability
- Multi-level identification system ensures chain of custody
- Convenience of whole body or extremity with wrist or ankle strap configurations
- Proprietary algorithm provides the most accurate film badge analysis available
- Available with CR39 for fast neutron dosimetry
- Choice of five colors to differentiate specific locations, departments and/or visitors
- Optional wall fixture placement available for area monitoring

Film badges are an established, accurate method for reporting dose and the product of choice for dental offices, veterinary clinics, universities and hospitals that utilize X-rays. The film badge provides accurate personnel detection using state-of-the-art dose assessment methodology. Film is evaluated to determine levels of radiation exposure received and to calculate dose equivalent at specific depths in tissue.

The slim lightweight badges can be worn on the body or extremities or used for monitoring an area. The film packet is sealed to shield the sensitive material from light-induced exposure and is encased in a molded plastic holder. Radiation reaches the film after penetrating five different filter areas: open window (OW), aluminum (Al), copper (Cu), lead/tin (Pb/Sn), and plastic (Pl). A complex algorithm is deployed to analyze the results on a film of these filter areas and report dose.



## Applications

- Medical practitioners and technologists, dentists, veterinarians, chiropractors or any practice with potential exposure to diagnostic X-rays.

## Proven Expertise

With the rapidly changing pace of your business today, the need for radiation safety is greater than ever. GDS understands the importance radiation monitoring plays in your business and the importance of maintaining the health of your employees. Rely on the over thirty years of experience of GDS to provide the right monitoring products and reliable data collection specially tailored for your work environment.

## Results You Can Trust

GDS products are currently being utilized wherever there is a potential for occupational radiation exposure – from private practitioner medical offices, dentists, veterinarians, hospitals and universities to large nuclear facilities. We can help you determine the right products for your business and provide accurate exposure reports to ensure the safety of your employees.

At GDS, customer satisfaction is our number one priority. Each day we strive to regularly exceed customer satisfaction and ensure that commitments are met on time, every time.

## GDS offers:

- Accurate monitoring reports and permanent compliance documentation
- Access to highly qualified health physicists and radiation dosimetry experts
- Convenient badge data storage in underground archival retention vaults for easy and safe retrieval for our customers

## Technical Specifications:

Badge Name	Film Dosimeter
Badge Type	1 = Film Badge 10 = Film with CR39
Description	GDS Type 4 Holder with Kodak Type 2 Personal Monitoring Film
Manufacturer	Holder: GDS Film: Eastman Kodak Type 2
Accreditations/ Approvals/Licenses	NVLAP HSE (United Kingdom)
Holder Type	Whole Body Wrist Area
Wear Location	Area, equipment, eye, lower left extremity, lower right extremity, non-personal use, non-specific extremity, upper left extremity, unknown, upper right extremity, whole body
Minimum Reportable Dose	10 mrem (0.10 mSv)
Lower Limit of Detection	4 mrem (0.04 mSv)
Useful Dose Range	10 mrem – 500 rads (0.10 mSv – 5 Gy)
Energy Response	Beta (MAX) 1.71 – 5 MeV Photon 5 keV – 3 MeV

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