

# GaRAD™

High - Energy  
Radiation Shielding

## Fusing Performance & Radiation Safety



GaRAD fuses performance with safety to produce a breathable material offering superior shielding against life-threatening X-ray and gamma radiation, compared to currently available products.

**GaRAD Delivers Versatile Life-Safety Protection**—Radioactive-Dispersal-Devices (RDD), or “dirty-bombs” use conventional explosives to distribute radioactive particles. Dirty bombs can be prepared from a wide range of radioactive materials. Specifically Co-60 & Cs-137 are of major concern due to gamma ray emissions.

**Unforeseen Disasters**—Human error, equipment failure, and natural disasters, can cause accidental spills or leakage involving radioactive materials. Medical spills during oncology and radiation therapy, pose unintended institutional threats. GaRAD’s radiation protection levels can rapidly be matched to the source intensity, and distance, for fast site preparation, and maximum safety to remediation teams.

### GaRAD Beats other Radshield Products Comfortably!

- Up to 18% weight reduction compared to current lead and tungsten based products
  - GaRAD uses totally lead-free and non-toxic radiation shielding materials
  - GaRad radiation suits and medical aprons are breathable for high wearability
  - GaRad radiation blankets can conform to radiation sources
  - 6 mm standard blanket protection thickness
  - 12 mm and 30 mm blanket thicknesses available
  - Standard blanket offers gamma (Cs-137) protection up to \*200 mSv/hr
- \*NOTE: Direct line perpendicularity to Cs-137 source— $5.06 \times 10^{-4}$  Gy/s

### GaRad Meets a Broad Range of Radiation Challenges

- Terrorist Threats—Radioactive-Dispersal-Devices (RDD), or “dirty-bombs”
- Effective Protection against Cs-137 gamma rays and X-rays
- Unforeseen Disasters—Human error, equipment failure, and natural disasters
- Accidental spills or leakage involving radioactive materials
- Medical spills during oncology and radiation therapy sessions
- GaRAD’s radiation protection can be matched to the source intensity, and distance
- Fast site preparation, and maximum safety to remediation teams



Proudly made



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