

DATASHEET 360^γ

360 Gamma Radiation Protection Vest (SR-360-GA-PRO)

The revolutionary StemRad 360 Gamma is the world’s first wearable shield that provides meaningful protection against harmful gamma radiation. The shield’s full compatibility with existing PPE and its optimized design, provide the wearer with the mobility required to perform critical tasks in the event of a nuclear incident.

Vest Features:

Ergonomic shoulder straps


Aramid binding ribbon

Aramid heavy webbing

Aramid sewing yarn

Coated aramid fabric

6 different sizes, for optimal fit and comfort*

 Dosimeter card

Fire-retardant reflective ribbon

Webbing end-collector


Heat-stabilized nylon buckles

Stainless-steel buckle

Real-time radiation monitoring

Sternum strap

X-box reinforcement



Six different sizes for optimal fit and comfort:

waist height	72-87 cm 28"-34"	88-104 cm 35"-41"	105-120 cm 42"-47"
	S Tall	M Tall	L Tall
182-200 cm 6'0"-6'7"			
150-181 cm 4'11"-5'11"	S Reg.	M Reg.	L Reg.

Unprecedented radiation attenuation levels



Position	Mean Attenuation
1	76%
2	67%
3	68%
4	34%
5	34%

* Caesium-137 Radiation Source

Fire Resistance

Tested to heat resistance at 180°C (ISO 17493) and flame spread (ISO 15025) in accordance with clauses 6.1 and 6.5 of EN 469:2005/A 1:2006+AC:2006. Was found to experience no ignition, melting or shrinkage due to the heat exposure and no flaming, hole formation, melting, flaming/molten debris, after-flame greater than 2s in duration, after-glow greater than 2s in duration, when exposed to flame.

Ballistic Protection

Tested in live range and found to meet NIJ STD 0101.04 Level IIIA Ballistics Protection.

Materials

Structure: Patented, variable thickness selective shielding architecture, which optimizes protection.
Shielding Core: Virgin Lead, Stainless Steel and Teflon- primary materials.
Harness: Kevlar.

Radiation Monitor + Pouch (SR-RAD-NUKAL)



A patented personal radiation meter, monitor and alarm. Affixed to the 360 Gamma shoulder strap with custom pouch, the device operates non-stop, 24/7 and will promptly warn the wearer of the presence of unseen, but acutely dangerous levels of radiation.

Always "ON" 24/7, includes long-life 10+ year battery.
 Detection Range: 100 mR/hr to 5,000 R/hr.
 Metering: 100 mR/hr to 50 R/hr, in 10 calibrated ranges.
 Gamma and X-rays from 20 keV to above 2 MeV.
 Includes a 10-year warranty.

5-year supply of Dosimeter cards (SR-DOS-5YCR)



Monitor radiation exposure (10 – 10,000 mSv).

When exposed to radiation, the sensing strip of SIRAD develops a blue color instantly and the color intensifies as the dose increases. Radiation exposure can be estimated simply by matching the color of the sensing strip(s) with the adjacent color reference bars.

Dosimeter card is inserted into slot on the inside of the 360 Gamma, thereby providing the shielded dose. Each year a new card will be sent to the purchaser.

Lightweight (~2g).
 Robust, unaffected by normal ambient conditions.
 Designed to be carried 24/7 and requires no batteries, calibration or maintenance.

Rolling Soft Case (SR-SOFT-CASE)



Custom tailored protective case for 360 Gamma, which is useful for transport or longterm storage.

Made of durable ballistic nylon.
 Rolls smoothly on premium caster wheels.
 Lightweight locking telescopic handle.

Carry-on sized case designed to fit in most airlines overhead compartments; 360 Gamma may not conform to some airlines carry-on standards.