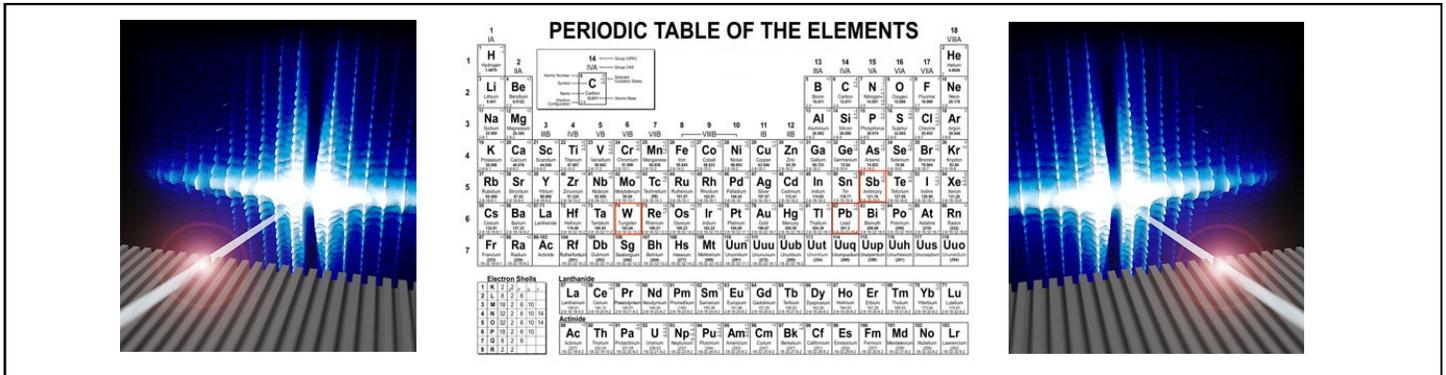


# Techno-Aide Lead-Free Lightweight Aprons:



Today's medical imaging community is turning to lead-free alternatives for their x-ray protection needs. Lightweight, lead-free alloys have become a necessity as increasing number of physicians and technologists are required to wear aprons for longer periods of time. The driving forces behind this shift are: standard heavy lead aprons have caused discomfort, fatigue, and musculoskeletal problems, the "green movement" has raised concerns about the hazardous waste implications of lead, and the long term effect of accumulated lead toxicity in the body. In response to these issues, manufacturers now offer lead-free x-ray apparel solutions. However, lead-free garments are sometimes met with skepticism, as the element "lead" has long been the front runner for protection against x-ray exposure because of its high mass attenuation coefficient for a wide energy range. Lead minimizes x-ray transmissions and also protects from the unintentional exposure to radiation during imaging examinations. With leading-edge advances in radiation physics and polymer processing, however, the production of lead-free aprons now competes with standard lead x-ray aprons for the same levels of protection, and at a lighter weight.

Techno-Aide's LMG media for x-ray protective apparel is a lead-free, environmentally friendly material that has been developed specifically for radiation protection. The material incorporates a proprietary, balanced patented formula of two x-ray attenuating elements: Tungsten & Antimony. Tungsten & Antimony offer highly effective protection from primary and scatter wavelengths. And, while it is more expensive than lead, its light weight and protective values make this media a prime choice to use in manufacturing protective garments. Garments made of these elements are quality control ensured during every step of production and conform to the world's strict IEC (61331-1) regulations on x-ray protection. They comply with DIN, JIS, as well as CE requirements (at both the 80 kV & 100 kV test levels, with 0.15/0.25 mD Cu filtration). Additionally, thanks to their ergonomic, lead-free design Techno-Aide LMG aprons are environmentally friendly and can either be recycled into new aprons or be easily incinerated or disposed of since they contain no toxic heavy metals.

Techno-Aide LMG aprons are safe for patients and radiology personnel because they are lead-free and they provide the same level of protection as old-style "lead aprons". They should be the first choice of x-ray protection by radiology personnel involved in long radiology procedures in order to prevent back and body pain. These aprons are guaranteed to function similar to traditional leaded aprons because of their proven attenuation properties and protection levels that are equal to lead against secondary scatter radiation.

