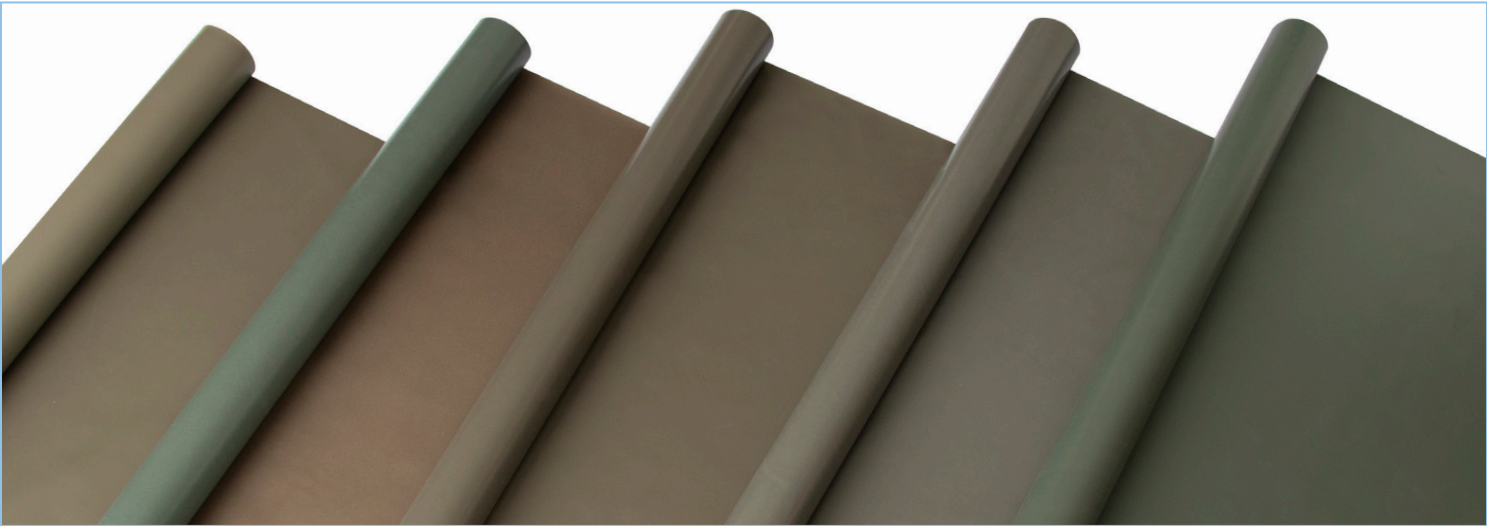
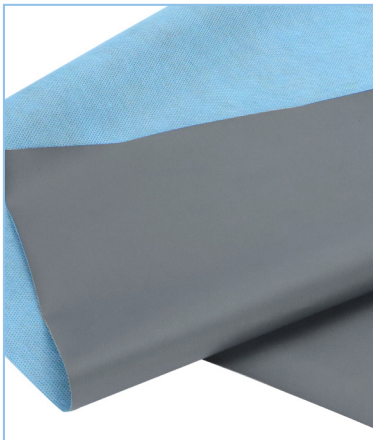
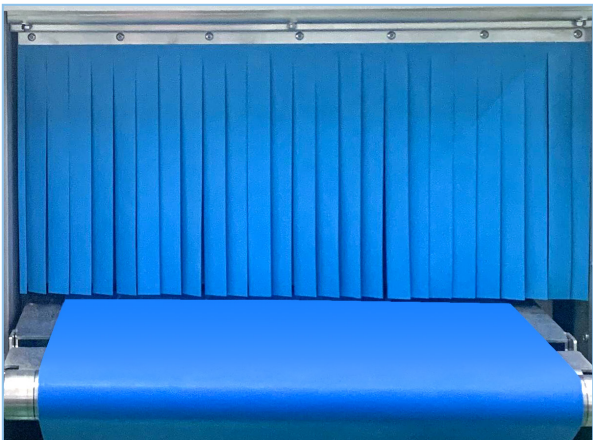




supashield™

**LEAD-FREE RADIATION SHIELDING
PRODUCT CATALOGUE 2024**



BS EN 61331-1:2014
Compliant

supashield™ : LEAD-FREE MEDICAL X-RAY SHIELDING MATERIALS



USAGE

supashield® flexible radiation shielding materials prioritize safety and environmental responsibility. We supply materials that are lead-free because we understand the harmful effects of lead on both the environment and human health. Our products are made from rare earth materials that are superior to traditional lead solutions.

ADVANTAGES

- Superior radiation shielding capability, surpassing traditional materials
- Non-toxic and eco-friendly
- Free of lead and antimony
- We convert sheet in-house to your size and specification

SPECIFICATIONS

Lead Equivalent (mmPb)	Voltage	Narrow Beam (NB) / Broad Beam (BB)	Weight kg/m ²	Thickness mm	Product Code	Product Name
0.125	60-110kV	BB	1.42	0.36	RA1/036/0000/1200/020/125	supashield® A - Lead Free 0.125PB 60-110KV Broad Beam - 0.36mm Thick
0.175	60-110kV	BB	2.12	0.54	RA2/054/0000/1220/020/175	supashield® A - Lead Free 0.175PB 60-110KV Broad Beam - 0.54mm Thick
0.25	60-110kV	BB	2.83	0.71	RA3/071/0000/1220/015/250	supashield® A - Lead Free 0.250PB 60-110KV Broad Beam - 0.71mm Thick
0.125	60-110kV	NB	1.3	0.35	RB1/035/0000/0000/000/125	supashield® B - Lead Free 0.125PB 60-110KV Narrow Beam - 0.35mm Thick
0.175	60-110kV	NB	1.95	0.52	RB2/052/0000/0000/000/175	supashield® B - Lead Free 0.175PB 60-110KV Narrow Beam - 0.52mm Thick
0.25	60-110kV	NB	2.6	0.66	RB3/066/0000/0000/000/250	supashield® B - Lead Free 0.250PB 60-110KV Narrow Beam - 0.66mm Thick
0.125	90-110kV	NB	1.3	0.39	RC1/039/0000/0000/000/125	supashield® C - Lead Free 0.125PB 90-110KV Narrow Beam - 0.39mm Thick
0.175	90-110kV	NB	2.13	0.58	RC2/058/0000/0000/000/175	supashield® C - Lead Free 0.175PB 90-110KV Narrow Beam - 0.58mm Thick
0.25	90-110kV	NB	3	0.78	RC3/078/0000/0000/000/250	supashield® C - Lead Free 0.250PB 90-110KV Narrow Beam - 0.78mm Thick
0.125	60-110kV	NB	1.8	0.48	RD1/048/0000/0000/000/125	supashield® D - Lead Free 0.125PB 60-110KV Narrow Beam - 0.48mm Thick
0.175	60-110kV	NB	2.7	0.72	RD2/072/0000/0000/000/175	supashield® D - Lead Free 0.175PB 60-110KV Narrow Beam - 0.72mm Thick
0.25	60-110kV	NB	3.6	0.96	RD3/072/0000/0000/000/250	supashield® D - Lead Free 0.250PB 60-110KV Narrow Beam - 0.96mm Thick

CERTIFICATION



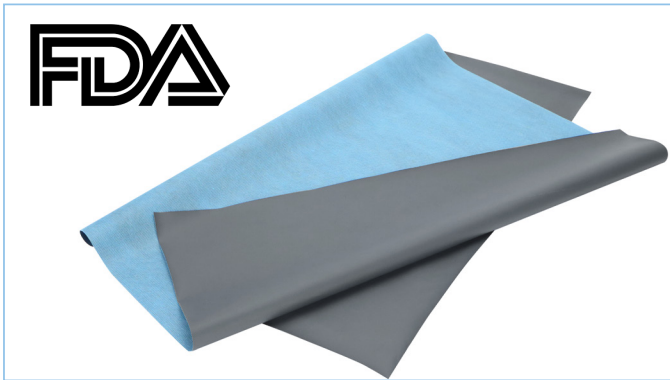
BS EN 61331-1:2014
Compliant



Contact us to see how we can provide assistance and add value at any stage from concept to production.

T: +44 (0) 114 244 1171 E: sales@anchormagnets.com W: www.anchormagnets.com

supashield™ : LEAD-FREE DISPOSABLE SCATTER DRAPE



USAGE

A lead-free solution for reducing radiation exposure for healthcare professionals. Our **supashield®** scatter drapes effectively absorb scattered radiation, providing maximum protection without the weight and toxicity of traditional lead-based products.

- Size: 40x60cm, bespoke sizes available
- Core material: Lanthanum-Samarium-Iron-Bismuth

CORE MATERIALS

The core materials Lanthanum, Samarium, Iron, and Bismuth are used in shielding to protect against low-energy, soft X-ray photons, reducing patient exposure.

ADVANTAGES

- Lanthanum and Samarium provide highly effective neutron attenuation
- Iron and Bismuth provide density and a high atomic number improving the attenuation of gamma-rays and x-rays
- Bismuth is a much safer alternative to Lead

SPECIFICATIONS

Product		Outer Dimensions (mm)	Rubber Shielding Dimensions (mm)	Lead Equivalence (mmPb)
	Variant One	419 x 318 Full Sheet	400 x 305	0.25
	Variant Two	419 x 368 Full Sheet	400 x 305	0.25
	Variant Three	419 x 368 with 1 Cut Hole at 18mm Diameter	400 x 305	0.25
	Variant Four	419 x 318 with 1 Cut Rectangle at 60 x 30	400 x 305	0.25
	Variant Five	419 x 318 with 1 Cut Rectangle at 70 x 19	400 x 305	0.25
	Variant Six	419 x 318 with a Single Cut Half-Round Along Edge at 30mm Diameter	400 x 305	0.25



BS EN 61331-1:2014
Compliant



supashield™ : LEAD-FREE DISPOSABLE COLLAR & CAP



USAGE

Our **supashield®** disposable collars and caps are made from soft, tightly woven fabric, providing a hygienic, single-use solution. Designed for comfort, they feature an absorbent, non-irritating liner that protects against dirt and perspiration, ensuring a clean and comfortable experience. Being lead-free, they offer a safer and more eco-friendly alternative to traditional materials.

- Size: one size fits all
- Colour: blue
- Packaging: available in boxes of 10, 20, 50

ADVANTAGES

- Comfortable and durable
- Lead-free and eco-friendly
- Lightweight
- Available in various sizes and lead equivalences

OPTIONS

Lead equivalent available in

- 0.125mmPb
- 0.175mmPb
- 0.25mmPb
- 0.35mmPb
- 0.50mmPb

CERTIFICATION



BS EN 61331-1:2014
Compliant



supashield™ : MEDICAL X-RAY PROTECTIVE GLASSES



USAGE

supashield® X-ray protective glasses are designed for lightweight comfort and reduce scatter radiation by up to 60%*. Built with cutting-edge materials and ergonomic design, these glasses ensure optimal comfort for extended wear, making them an essential tool for radiation protection in both medical and industrial environments.

ADVANTAGES

- Lightweight and comfortable
- Effectively reduces exposure to scattered radiation
- Front and side multi-protection for comprehensive safety
- Can be worn over glasses
- Available in a variety of colours

SPECIFICATIONS

Product	Colour	Weight	Lead Equivalence
Standard	Black	55g	0.07mmPb
Standard	Matt black & Blue	55g	0.07mmPb
Standard	Matt Red	55g	0.07mmPb
Flip design	Black	55g	0.07mmPb

*The effectiveness of scatter reduction varies depending on the specific imaging techniques employed.

CERTIFICATION



BS EN 61331-1:2014
Compliant

supashield™ : MEDICAL X-RAY PROTECTIVE FACE SHIELDS



USAGE

supashield® face shields are specifically designed to protect the eyes and face during radiological procedures. Our multi-adjustable headpieces allow for flexible positioning to shield against radiation from various angles effectively. Adjustable for comfort and secure in fit for different head sizes, our face shields enhance usability and safety during extended use.

ADVANTAGES

- Maximum x-ray protection
- Fully adjustable
- Can be worn over glasses
- Lightweight

SPECIFICATIONS

Product	Colour	Weight	Lead Equivalence
Full face	Lead Acrylic	360g	0.12mmPb
Half Face	Lead Acrylic	300g	0.12mmPb

CERTIFICATION



BS EN 61331-1:2014
Compliant

supashield™ : PROTECTIVE EQUIPMENT



USAGE

Our **supashield®** specialized equipment for nuclear and radiological emergencies, including vests, gloves, suits, and shoes, are designed to meet stringent safety standards. Engineered to protect against nuclear threats and accidents, our gear withstands complex nuclear and chemical environments.

ADVANTAGES

- Highly Protective
- Durable and Reliable
- Comfortable and Mobile
- Bespoke Options

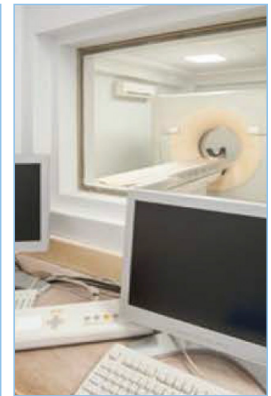
supashield™ : MEDICAL X-RAY TRANSPARENT LEAD-ACRYLIC SHEET



Mobile barrier



Suspended arm barriers



Windowpanes

USAGE

Enhance safety and visibility with **supashield®** Lead-Acrylic Transparent Radiation Shielding. Ideal for medical, dental, and industrial settings, these shields provide exceptional radiation protection while maintaining clear visibility. Engineered from high-quality leadacrylic materials, they are lightweight, durable, and easy to install.

ADVANTAGES

- Wide range of lead equivalencies and thicknesses available
- Robust, durable, and shatter-resistant
- Can be cut, drilled, or machined using standard techniques
- Bespoke cutting services available

SIZE

Size: 600x800mm, 800x800mm. Bespoke options available

SPECIFICATIONS

Lead Equivalency	Thickness	Light Transmission	Attenuation at 100kVp	Flexural Strength	Flexural Modulus	Izod Impact Strength	Tensile Strength	Tensile Modulus
0.075	2±0.25	93%	79.6	52Mpa	1624Mpa	12KJ/m ²	36Mpa	2003Mpa
0.125	3±0.25	92%	84.3	55Mpa	1740Mpa	12KJ/m ²	36.4Mpa	2102Mpa
0.25	6±0.4	91%	92.6	59Mpa	1852Mpa	12KJ/m ²	37.5Mpa	2273Mpa
0.33	8±0.5	90%	95.4	63Mpa	1964Mpa	12KJ/m ²	38Mpa	2307Mpa
0.42	10±0.5	89%	97.1	66Mpa	2098Mpa	11KJ/m ²	40.2Mpa	2406Mpa
0.50	12±0.7	87%	98.1	70Mpa	2304Mpa	10KJ/m ²	43Mpa	2415Mpa

CERTIFICATION



BS EN 61331-1:2014
Compliant

supashield™ : LEAD-FREE SECURITY CURTAINS



USAGE

Our **supashield**® X-ray curtain material enhances security at airports and checkpoints with advanced lead-free technology, providing 20% more shielding efficiency than traditional lead curtains. Specifically designed for luggage scanners, they minimize human intervention and extend equipment lifespan. Available in fabric and plastic finishes, the fabric option is preferred by airports for smooth passage of small bags. Eco-friendly and recyclable, these curtains can also be customized with branding, making them a versatile choice for boosting security and operational efficiency.

ADVANTAGES

- Lead-free and eco-safe
- Prolongs the operational life of luggage scanning equipment
- Minimises the need for manual intervention during scanning operations
- Bespoke options for branding or informational purposes
- Available in fabric and plastic variants to suit diverse operational needs

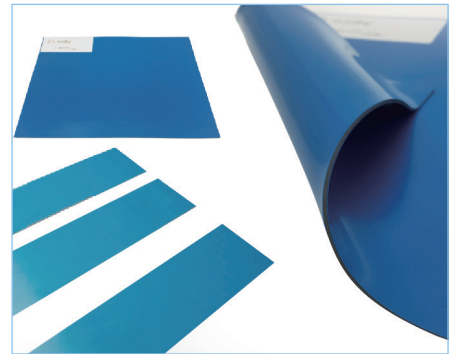
CERTIFICATION



BS EN 61331-1:2014
Compliant



supashield™ : FOOD SAFE, LEAD-FREE HIGH ENERGY RADIATION SHIELDING



USAGE

Our **supashield®** curtains are ROHS and FDA approved, meeting stringent regulatory standards for safety and reliability. Made from lead-free materials, they offer exceptional durability and resistance to wear and oil. Engineered to enhance scanner efficiency, our **supashield®** curtains facilitate smoother passage for small objects. Maintaining flexibility at as low as -10 degrees Celsius, our curtains boast a service life up to three times longer than comparable products. Easy to maintain, these curtains can be cleaned with neutral or alkaline cleaners and are fully customisable to meet specific application requirements.

ADVANTAGES

- ROHS and FDA approved
- Lead-free, and eco-safe
- Resistant to wear and oils
- Facilitates smoother passage for small objects
- Maintains flexibility in temperatures as low as -10 degrees Celsius
- Easy to clean with neutral or alkaline cleaners, minimising maintenance downtime
- Bespoke options available

Lead Equivalency	Tube Voltage	Density	Thickness	Hardness	Tensile Strength	Temp Range	Colour
0.125mmPb	90Kv	1.88Kg/m ²	0.65±0.05mm	76±2	>3.5MPa	minus 10 to 70°C	Blue
0.175mmPb	90Kv	2.5Kg/m ²	0.84±0.05mm	76±2	>3.5MPa	minus 10 to 70°C	Blue
0.25mmPb	90Kv	3.2Kg/m ²	1±0.05mm	76±2	>3.5MPa	minus 10 to 70°C	Blue
0.25mmPb	120Kv	3.9Kg/m ²	1.18±0.05mm	76±2	>3.5MPa	minus 10 to 70°C	Blue
0.125mmPb	90Kv	1.78Kg/m ²	0.58±0.05mm	76±2	>3.5MPa	minus 10 to 70°C	Blue
0.175mmPb	90Kv	2.4Kg/m ²	0.76±0.05mm	76±2	>3.5MPa	minus 10 to 70°C	Blue
0.25mmPb	90Kv	3.1Kg/m ²	0.94±0.05mm	76±2	>3.5MPa	minus 10 to 70°C	Blue

CERTIFICATION



BS EN 61331-1:2014
Compliant

