# CORE MATERIAL SHEET

VERSION 3.0 - FEB 2024

ROTHBAND

| Material | Lead Equivalence | Attenuation (%) | | | | | | Weight Kg/M² |
|---|---|---|---|---|---|---|---|---|
| | | 50 kVp | 70 kVp | 90 kVp | 110 kVp | 120 kVp | 150 kVp | |
| Lightweight Lead is a popular solution that provides the highest level of protection at a very reasonable price. | | | | | | | | |
| LIGHTWEIGHT LEAD | 0.25 mm Pb | 98.8 | 95.1 | 90.7 | 87.5 | 86.2 | 82.7 | 3.34 |
| | 0.35 mm Pb | 99.7 | 97.6 | 94.5 | 92.3 | 91.3 | 88.6 | 4.76 |
| | 0.5 mm Pb | *>99.9 | 99.1 | 97.4 | 96.1 | 95.5 | 93 | 6.80 |
| Our Edge Bilayer - Low Lead material provides a half way house between lightweight lead and our lead free bilayer. By layering Antimony with Lead, we are able to provide a high level protection* Available only via special request. | | | | | | | | |
| LOW LEAD | 0.25 mm Pb | 98.9 | 96.5 | 92.5 | 88.5 | 86.5 | 80.9 | 2.96** |
| | 0.35 mm Pb | 99.6 | 98.1 | 95.6 | 93.1 | 91.9 | 88.4 | 4.05** |
| | 0.5 mm Pb | *>99.9 | 99.4 | 98 | 96.5 | 95.7 | 93.3 | 5.80** |
| Our ultralight Edge Bilayer - Lead Free solution, By layering Antimony with Bismuth it provides a superior level of protection that conforms to the highest standards at the lowest weights. | | | | | | | | |
| LEAD FREE | 0.25 mm Pb | 98.7 | 96.1 | 92 | 87.8 | | | 2.80 |
| | 0.35 mm Pb | 99.6 | 98.0 | 95.3 | 92.7 | | | 3.92 |
| | 0.5 mm Pb | *>99.9 | 99.4 | 97.8 | 96.3 | | | 5.60 |

Testing in accordance with BS EN 61331-1:2014 BBG* using inverse broad beam geometry. Performed by the National Physics Laboratory.

Figures are for guidance and all materials passed the relevant testing.
For full report, please visit www.rothband.com

* The response of the ionisation chamber was too low to record a value accurately. This value was extrapolated from a straightline fit of the 70-150kV values.
** Weights are based upon testing up to 110kV and indicative. The test weights up to 150kV are heavier than noted here.