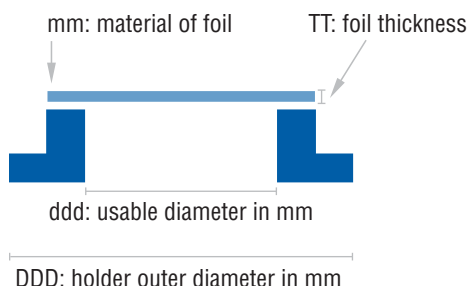
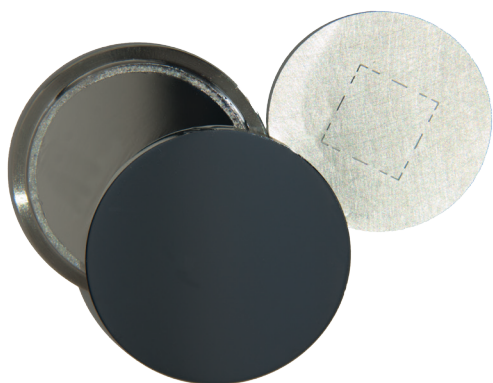


OTR Screens

Foils and Wafers



We offer Optical Transition Radiation screens in various configurations. In addition to silicon wafers and stretched foils, we also offer 100 μm thick aluminum sheets and super-polished aluminum.

Contact us for custom sizes, materials, and thicknesses.

SILICON WAFERS

RadiaBeam offers robust aluminized silicon wafers with a 50 nm aluminum layer. Our standard silicon wafers are 250 μm thick and vary only in their diameter. Silicon's low stopping power produces little downstream radiation.

Silicon wafers are specified using the format DSSI-TT-DDD-AL50, where TT is the screen's thickness (standard is 250 μm), and DDD is the diameter of the screen.

STRETCHED FOILS

Stretched foils are available in standard thicknesses of 1, 10, and 25 μm for minimal X-ray generation. Aluminum foil is the most economical choice but Titanium and copper are also available. Foils are bonded to an aluminum frame using a low outgassing epoxy that is compatible to 10^{-10} torr vacuum levels while remaining bakeable to 100°C.

Stretched foils are specified using the format DSSF-mm-ddd-TT-DDD. Refer to the diagram for details

| | Size | XS | S | M | L |
|------------------------------------|------|--|------|------|------|
| Outer holder diameter (DDD) | | 12.7 | 25.4 | 38.1 | 50.0 |
| Usable diameter (ddd) | | 05.0 | 18.0 | 30.0 | 40.0 |
| Foil thickness (TT) | | 1, 10, and 25 μm are standard for all sizes | | | |
| Foil material (mm) | | Choose AL, CU, or TI for any size | | | |



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Other options are available upon request. Please contact us or visit our website for purchasing information.