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Cultured quartz suits large waveplates

X-plate Cultured Quartz provides waveplates (retardation plates) and other types of polarizing optics with diameters up to 150 mm. The quartz is grown using a proprietary hydrothermal technique that utilizes X-plate seeds (vs. traditional Z-plate seeds) and achieves near-zero concentrations of various crystalline defects, such as inclusions and dislocations.

The product is offered as machined and X-ray oriented blocks in two sizes: small for waveplate diameters up to 100 mm, and large, for diameters to 150 mm. Also, precisely oriented, lapped, or inspection-polished quartz blanks can be manufactured to custom specifications; for example, 2 mm-thick round blanks can be provided which are wavelength-specific to 0.2 μm . (Contact Janet Radwanski for pricing – available now.)