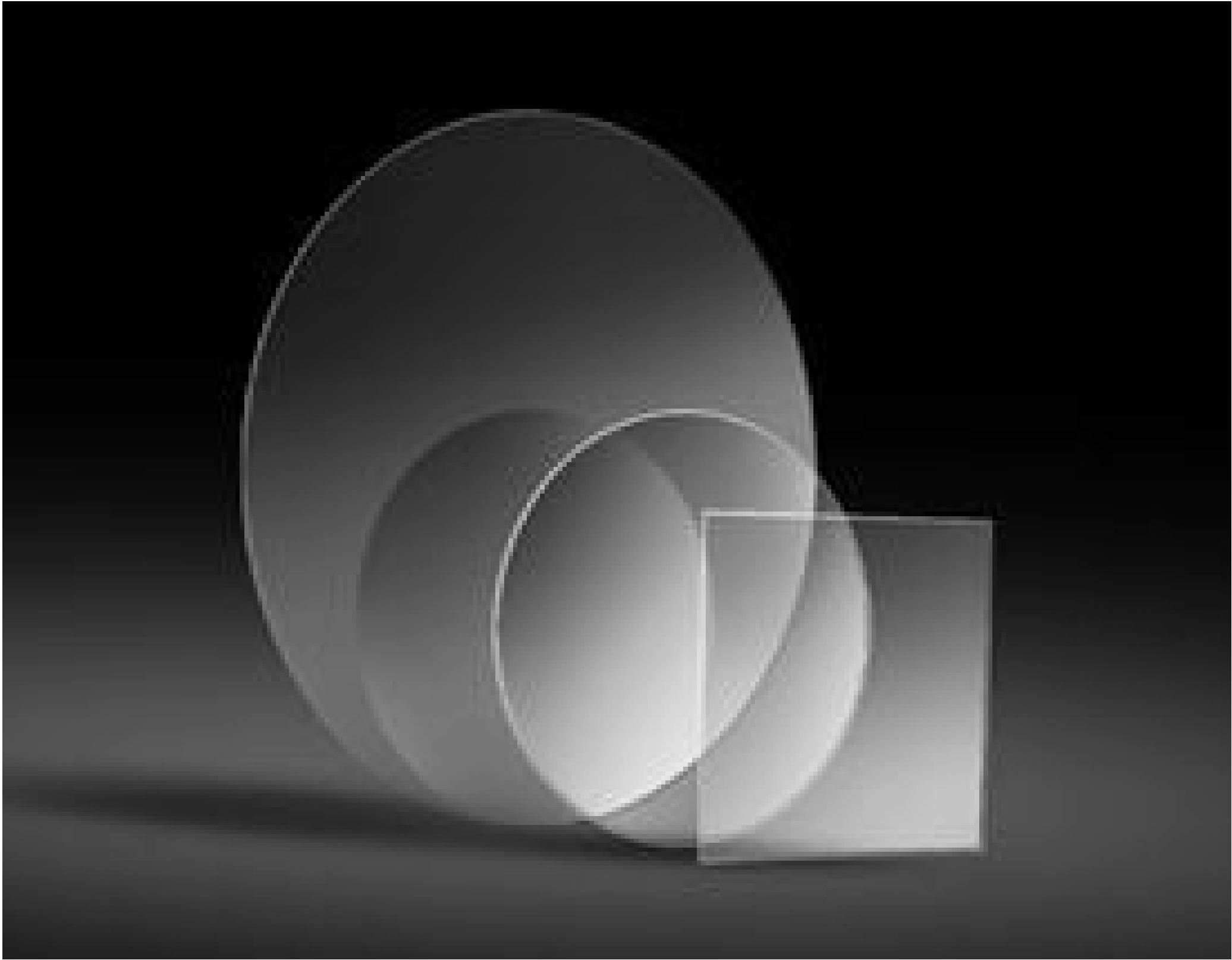


[See all 22 Products in Family](#)

Ultra-Thin Nanoparticle Polarizer, 366-392nm, 10 x 10mm, Uncoated



Ultra-Thin Polarizers; 10x10, 12.5mm Dia, and 25mm Dia.

Stock **#90-254** NEW **2 In Stock**

-

1

+

C\$610⁴⁰

ADD TO CART

Volume Pricing	
Qty 1-10	C\$610.40 each
Qty 11+	C\$488.60 each
Need More?	Request Quote

Product Downloads

General	
Linear Polarizer	Type:
Physical & Mechanical Properties	
9.00	Clear Aperture CA (mm):
10.00 x 10.00 +0/-0.1	Dimensions (mm):
	Thickness (mm):

0.09 ± 0.025	
Nanoparticle	Construction:
90	Clear Aperture (%):
Optical Properties	
Uncoated	Coating:
>1000:1 (366 - 392nm) >10,000:1 (371 - 386nm)	Extinction Ratio:
Sodium Silicate Glass Doped with Glass Nanoparticles	Substrate: ☐
40-20	Surface Quality:
>48	Transmission (%):
<3 wave	Transmitted Wavefront, P-V:
<0.5 (to indicated edge)	Polarization Axis Mark (%):
366 - 392	Wavelength Range (nm):
Continuous block Continuous pass Pulse peak power Equivalent pulse power density 10 W/cm² 25 W/cm² 12 MW/cm² 1 µJ/cm²	Damage Threshold, By Design: ☐
±20	Acceptance Angle (°):
Threading & Mounting	
Unmounted	Mount Thickness (mm):
Environmental & Durability Factors	
-50 to +400	Operating Temperature (°C):
Regulatory Compliance	
View	Certificate of Conformance:

Product Details

- **NEW LOWER PRICE!**
- Lightweight 90µm Thick Substrate
- >10,000:1 Extinction Ratio
- Excellent Resistance to Temperature, Chemicals, and Harsh Environments
- Range of Standard Sizes, Coatings, and Custom Options Available

Ultra-Thin Nanoparticle Polarizers are a lightweight 90µm thick alternative to traditional polarizers while providing a high transmission and an extinction ratio of >10,000:1. Constructed from sodium silicate glass substrate doped with prolate silver nanoparticles, these polarizers provide high temperature stability up to +400°C, chemical resistance, and resistance to UV radiation and bleaching. These polarizers are available uncoated, Single-Side AR coated, or Double-Side AR coated and cover wavelength ranges from 366-1600nm. Ultra-Thin Nanoparticle Polarizers design are ideal for use in telecom, medical, and aerospace applications as well as in optical isolators, polarization interferometry, and improving signal-to-noise ratio.

Custom

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).