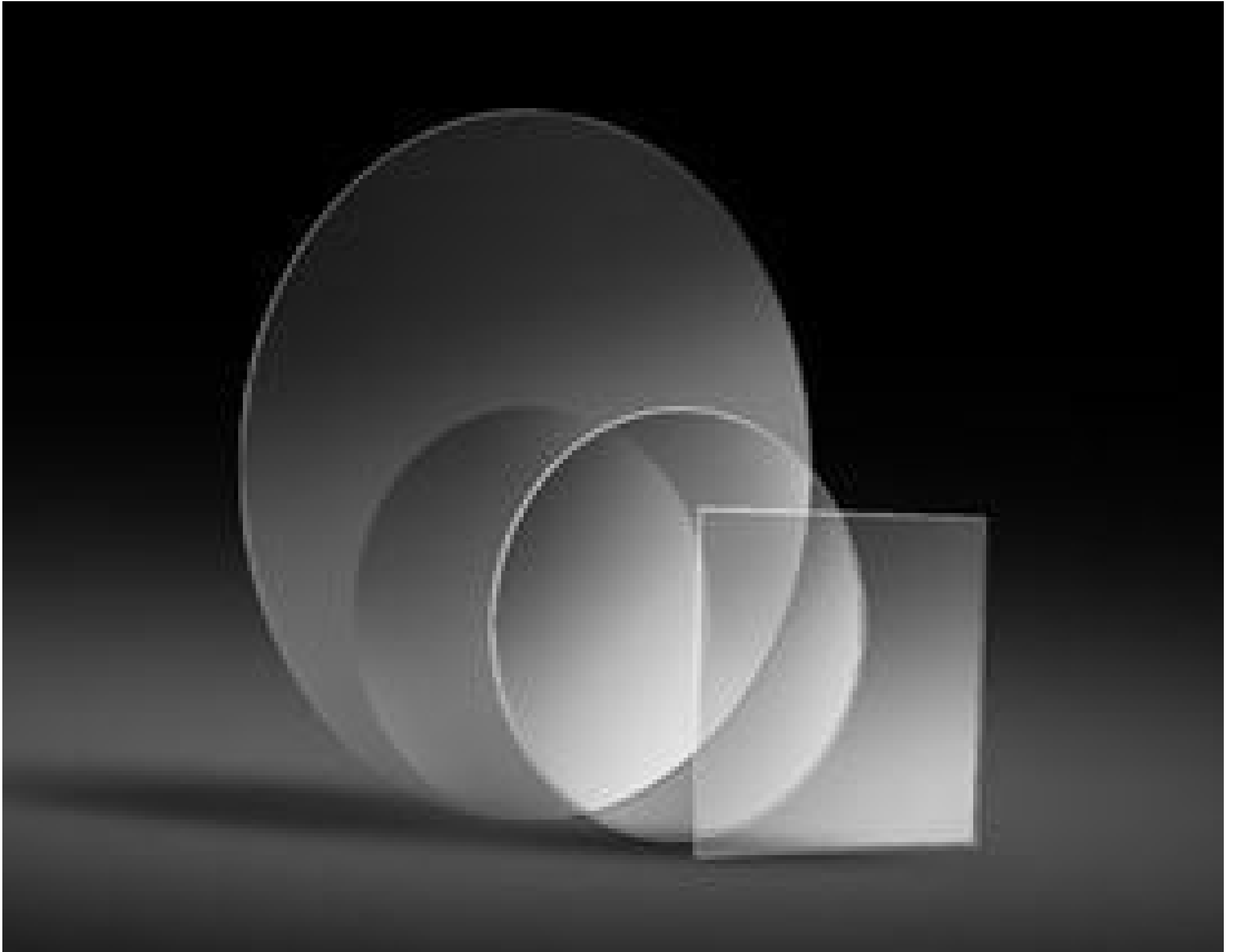


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## Ultra-Thin Nanoparticle Polarizer, 500-550nm, 10 x 10mm, Double-Sided AR Coated



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

Stock #90-255 NEW **2 In Stock**

MRP ₹46,813

Price inclusive of all taxes

ADD TO CART

Volume Pricing	
Qty 1-10	₹46,813 each
Qty 11+	₹37,431 each
Need More?	<a href="#">Request Quote</a>

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):

0.09 ± 0.025	<b>Thickness (mm):</b>
Nanoparticle	<b>Construction:</b>
90	<b>Clear Aperture (%):</b>
<b>Optical Properties</b>	
Double-Side AR Coat	<b>Coating:</b>
>10,000:1	<b>Extinction Ratio:</b>
Sodium Silicate Glass Doped with Glass Nanoparticles	<b>Substrate:</b> <input type="checkbox"/>
40-20	<b>Surface Quality:</b>
>72	<b>Transmission (%):</b>
<3 wave	<b>Transmitted Wavefront, P-V:</b>
<0.5 (to indicated edge)	<b>Polarization Axis Mark (%):</b>
500 - 550	<b>Wavelength Range (nm):</b>
Continuous block Continuous pass Pulse peak power Equivalent pulse power density 10 W/cm <sup>2</sup> 25 W/cm <sup>2</sup> 12 MW/cm <sup>2</sup> 1 μJ/cm <sup>2</sup>	<b>Damage Threshold, By Design:</b> <input type="checkbox"/>
±20	<b>Acceptance Angle (°):</b>

## Threading & Mounting

Unmounted	<b>Mount Thickness (mm):</b>
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## Environmental & Durability Factors

-50 to +400	<b>Operating Temperature (°C):</b>
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## Regulatory Compliance

<a href="#">View</a>	<b>Certificate of Conformance:</b>
Germany	<b>Country of Origin:</b>
Edmund Optics India Private Limited 267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038 Phone: +91- 80-6845 0000	<b>Imported By:</b>

## Need different specs or modifications?

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](#).

## 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.

