

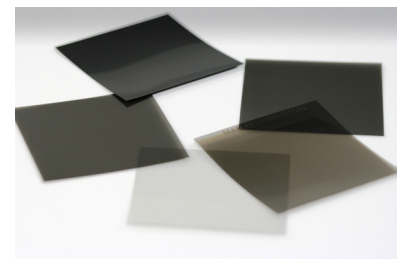
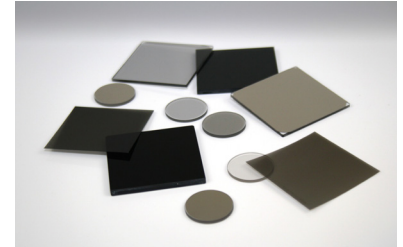
# Neutral Density Filter Capabilities

Typically used in photography, neutral-density (ND) filters work by constantly attenuating light that's independent of the wavelength. Knight Optical offers three types of ND filters: Gelatin, Glass and Metallic.

Low in cost, gelatin ND filters tend to have a narrower wavelength compared to glass and those of a metallic composition, and also filters have a greater fluctuation with wavelengths.

One of the more common ND filters, glass, attenuate light by absorption similar to gelatin.

Comprising a thin metallic layer on borosilicate or UV-grade fused silica polished windows, metallic ND filters attenuate light by reflection; therefore, avoiding possible heating issues commonly associated with glass and gelatin ND filters.



## Custom Capabilities

<b>Dimensions</b>	5mm to 300mm+
<b>Thickness</b>	
<i>Glass</i>	Varies between batches to control the OD
<i>Metallic</i>	±0.1mm
<i>Gelatin</i>	±0.05mm
<b>Scratch/Dig</b>	<10:5
<b>Optical Density</b>	0.1 to 4.0
<b>Mounting Options</b>	Mounted or unmounted

Tested to the highest standards in our state-of-the-art metrology laboratory by a team of highly trained technicians, all Knight Optical's products undergo the company's meticulous quality assurance process before dispatch to check for surface imperfections and ensure a crystal-clear finish to meet the high quality expected from our customers. Individually inspected and tested, our metrology and quality assurance departments ensure a premium procedure is undertaken with every optic dispatched from our headquarters.

For more information on any of our optical services, to discuss your requirements or place a direct order with one of our technical sales team, please contact Knight Optical by Email: [info@knightoptical.com](mailto:info@knightoptical.com) or call direct on +44 1622 859 444 (UK, EUR or ROW) +1 401 583 7846 (USA & Canada).