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Anti-reflection

Beam Splitters

Heat Control

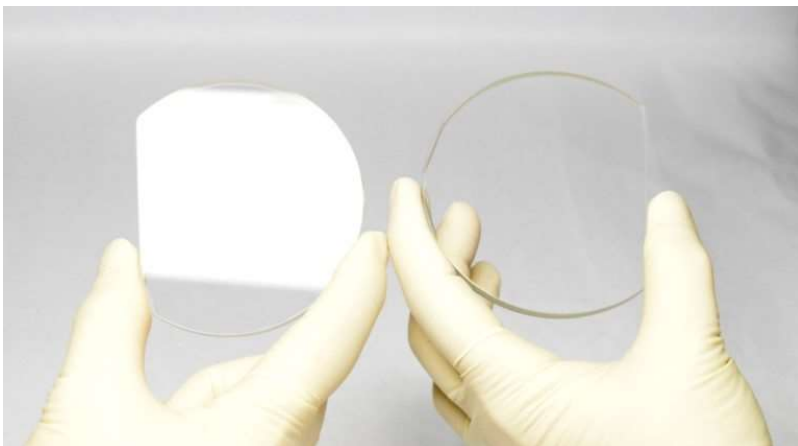
Mirror Coatings

Metal Coatings

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Protective Coatings

ITO



Anti-Reflection (AR) coatings are coatings applied to the surfaces of lenses and windows to reduce reflectance. (Available in the ultraviolet, visible and infrared)

When light is incident upon the boundary between two media, some of the energy is reflected and some is transmitted. Anti-reflection coatings work by controlling the phase of the reflected energy from



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displays employ anti-reflection coatings to reduce loss of the transmitted signal or reduce glare. See the image above for an example of an uncoated piece of optical glass versus a piece of optical glass coated on one side with an anti-reflection coating.

Newport Thin Film Laboratory has developed a vast array of anti-reflection coatings optimized in the **ultraviolet, visible and infrared** wavelengths. NTFL can also design and deposit custom anti-reflection coatings to customer specifications. If you are not sure how to specify your coating, our coating engineers will work with you to identify the best design for your needs. NTFL also offers **low temperature** anti-reflection coatings for polymer optics. For more information concerning general types of anti-reflection (AR) coatings such as single layer anti-reflection (**SLAR**), V-coat (**VAR**), broad band anti-reflection (**BBAR**), and dual band anti-reflection coatings please [contact us](#).

### Key Benefits

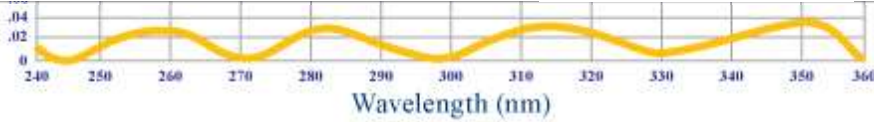
- Significant reduction of the reflection loss incurred at each surface.
- Reasonable durability.
- Can be designed to perform well for a wide range of applications (*e. g.*, wide wavelength ranges and high angles).
- Coatings on Substrate dimensions from 1 mm to 550mm Dia.

### Substrate Materials

Glass, polymers, and crystals.

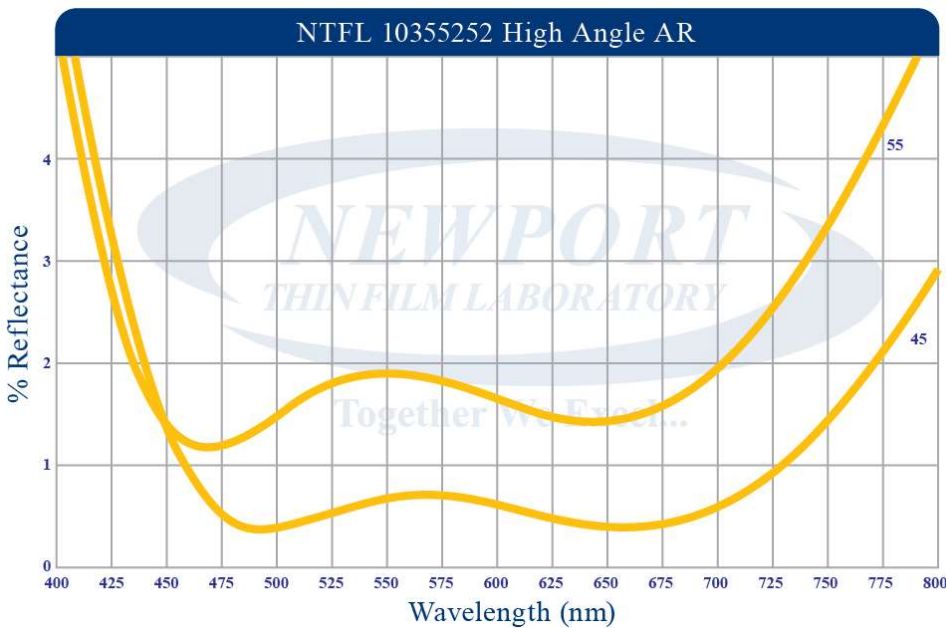
### Durability

AR coatings can be design to meet adhesion, abrasion, temperature, humidity, salt and solubility of various Mil-Spec and ISO specifications.



## Anti-Reflection Coating in the UV

Custom Options Available



## High Angle Anti-Reflection Coating

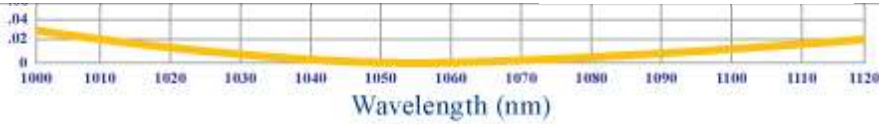
Custom Options Available



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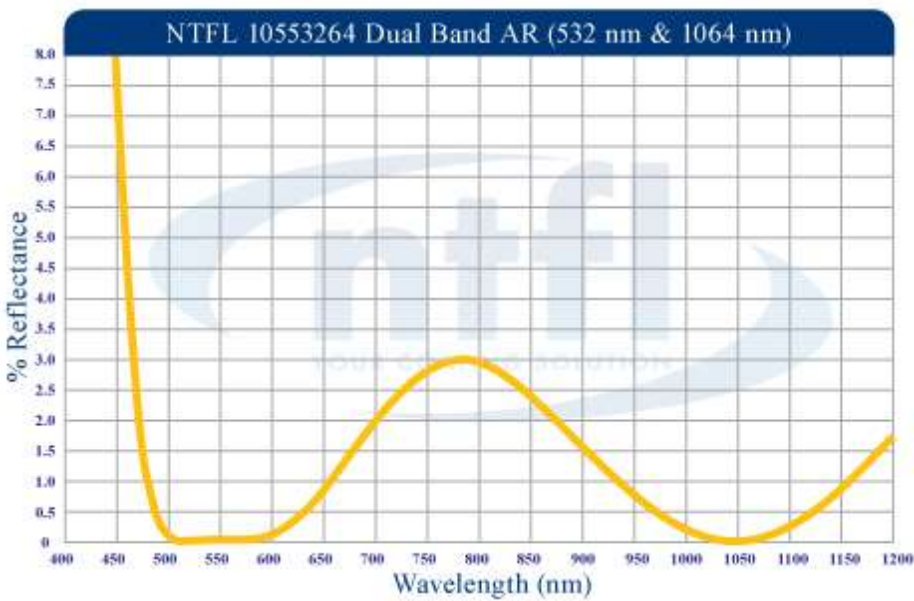


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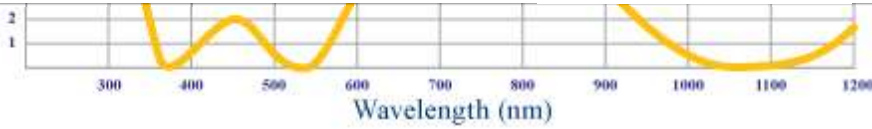
## Anti-Reflection Coating - 1064nm

Custom Options Available



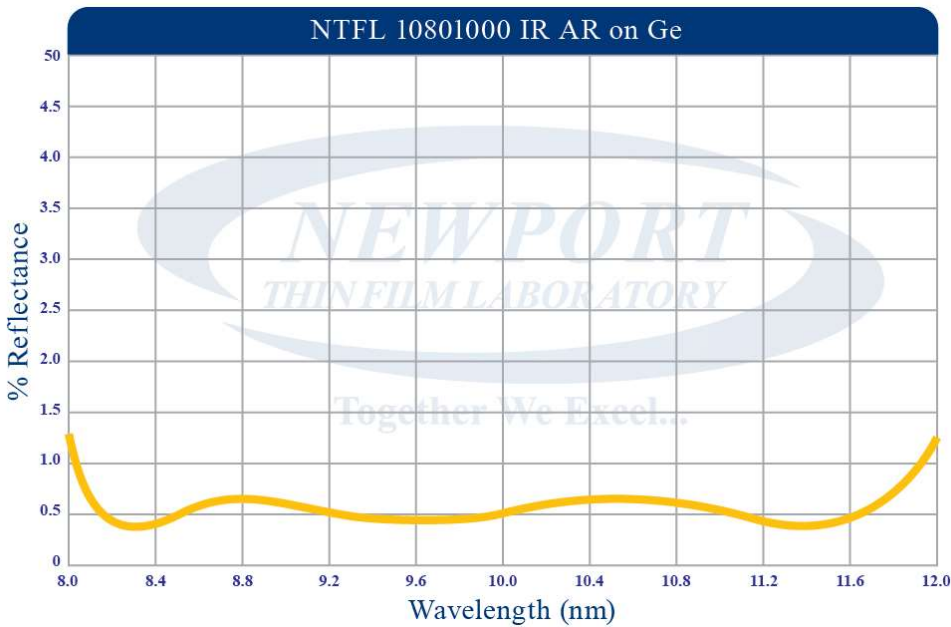
## Dual Band Anti Reflection Coating - 532nm and 1064nm

Custom Options Available



## Triple Band Anti-Reflection Coating - 355nm, 532nm, and 1064nm

Custom Options Available



## IR Anti-Reflection Coating on Germanium - 8 to 12 microns

Custom Options Available



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NTFL offers a wide variety of Optical Thin Film Coatings for use in the Ultraviolet, Visible, and Infrared. We can...

<https://t.co/AiOtRPpZaB>

2 weeks

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