

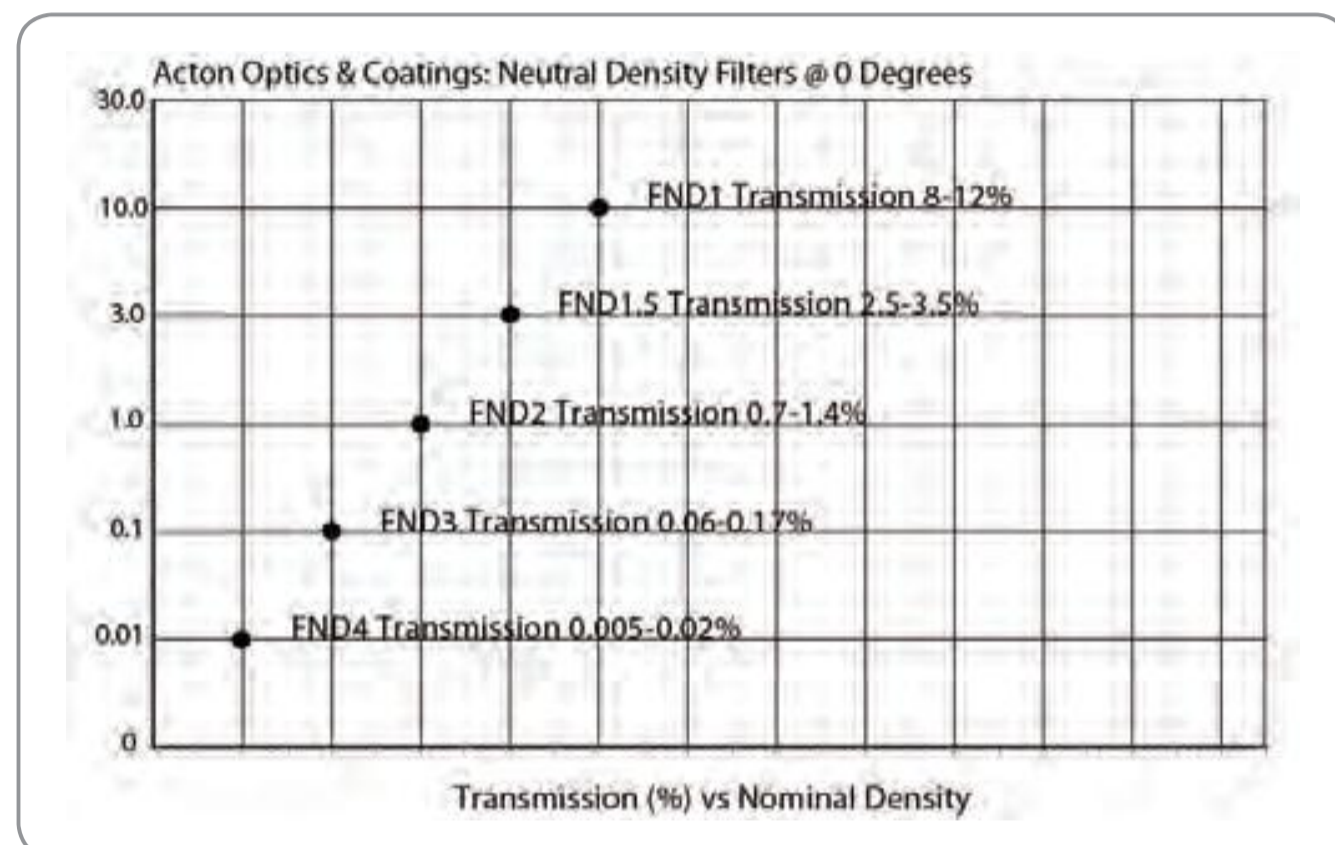
VUV Filters

Neutral Density

Acton Optics & Coatings' vacuum ultraviolet neutral density filters are made of metallic films, over-coated with a dielectric protective layer. Density over the range of 120-200nm is determined by the combined transmittance, reflectance and absorption of these films. Acton also offers this line of neutral density filters for the UV wavelength range of 200-320nm.

Each filter is individually calibrated for transmittance over range of 120-200nm and supplied with a transmittance curve. VUV ND5 and ND6 filters are offered as special order items. They are calibrated at strong VUV spectral lines only, such as 160.8nm and 253.7nm. VUV neutral density filters are coated on UV-grade MgF₂ and UV neutral density filters are provided on UV-grade fused silica.

VUV and UV neutral density filters can be supplied in anodized metal rings as described on page 21.



Coatings can be applied to Acton standard substrates (pgs: 32-33), custom substrates and customer supplied material (CSM). Please contact Acton Optics & Coatings for details.

VUV Neutral Density Filters



Optical Density	Nominal Transmission	Transmission Range	0.5" Part Numbers	1.0" Part Numbers
0.3	50%	42-58%	FND0.3-.5D-V	FND0.3-1D-V
0.5	30%	25-35%	FND0.5-.5D-V	FND0.5-1D-V
1.0	10%	8-12%	FND1-.5D-V	FND1-1D-V
1.5	3.0%	2.5-3.5%	FND1.5-.5D-V	FND1.5-1D-V
2.0	1.0%	0.7-1.4%	FND2-.5D-V	FND2-1D-V
3.0	0.1%	0.06-0.17%	FND3-.5D-V	FND3-1D-V
4.0	0.01%	0.005-0.02%	FND4-.5D-V	FND4-1D-V
5.0	0.001%	0.0007-0.0015%	FND5-.5D-V	FND5-1D-V
6.0	0.0001%	0.00007-0.00014%	FND6-.5D-V	FND6-1D-V

NOTE: Substrate material for all VUV ND Filters is MgF₂ and Fused Silica for all UV ND Filters