

# ABSORPTIVE ND FILTERS

Absorptive neutral-density filters provide an alternative to metallic neutral-density filters. They are preferred when elimination of backscatter and back reflections are of particular concern.

Absorptive filters vary in thickness from less than a millimeter to nearly five millimeters, depending on the material and the melt. Since there can be large variations between glass melts, actual thickness and glass material may vary in order to guarantee optical density.

## ■ Standard Specifications:

<b>Optical Material:</b>	Optical Neutral Density Glass
<b>Diameter Tolerance:</b>	+0.0, -0.15mm
<b>Parallelism:</b>	3 arc minutes
<b>Clear Aperture:</b>	>85%
<b>Surface Quality:</b>	40-20 scratch and dig
<b>Wavefront Distortion:</b>	2lambda per 25mm
<b>Bevel:</b>	<0.25mm X 45°

## ■ Standard Absorptive ND Filters:

Diameter(mm)	Transmission	Material	Optical Density	Product Number
25.0	79.43%	NG Glass	0.1	UQT-NDG0101
25.0	63.10%	NG Glass	0.2	UQT-NDG0102
25.0	50.12%	NG Glass	0.3	UQT-NDG0103
25.0	39.81	NG Glass	0.4	UQT-NDG0104
25.0	31.62	NG Glass	0.5	UQT-NDG0105
25.0	25.12	NG Glass	0.6	UQT-NDG0106
25.0	19.95	NG Glass	0.7	UQT-NDG0107
25.0	15.85	NG Glass	0.8	UQT-NDG0108
25.0	12.59	NG Glass	0.9	UQT-NDG0109
25.0	10.00	NG Glass	1.0	UQT-NDG0110
25.0	3.16	NG Glass	1.5	UQT-NDG0111
25.0	1.00	NG Glass	2.0	UQT-NDG0112
25.0	0.100	NG Glass	3.0	UQT-NDG0113
25.0	0.01	NG Glass	4.0	UQT-NDG0114
25.0	0.001	NG Glass	5.0	UQT-NDG0115
50.0	79.43%	NG Glass	0.1	UQT-NDG0201
50.0	63.10%	NG Glass	0.2	UQT-NDG0202
50.0	50.12%	NG Glass	0.3	UQT-NDG0203
50.0	39.81	NG Glass	0.4	UQT-NDG0204
50.0	31.62	NG Glass	0.5	UQT-NDG0205
50.0	25.12	NG Glass	0.6	UQT-NDG0206
50.0	19.95	NG Glass	0.7	UQT-NDG0207

50.0	15.85	NG Glass	0.8	UQT-NDG0208
50.0	12.59	NG Glass	0.9	UQT-NDG0209
50.0	10.00	NG Glass	1.0	UQT-NDG0210
50.0	3.16	NG Glass	1.5	UQT-NDG0211
50.0	1.00	NG Glass	2.0	UQT-NDG0212
50.0	0.100	NG Glass	3.0	UQT-NDG0213
50.0	0.01	NG Glass	4.0	UQT-NDG0214
50.0	0.001	NG Glass	5.0	UQT-NDG0215

Please Contact [ultiQuest](#) for other dimensions in prototype and production quantities.

#### NOTES!

- ➔ For absorptive neutral density filters, the effect of the color coupler differs with manufacturing lots according to glass dissolution conditions. Since transmittance is adjusted with plate thickness, the standard plate thickness is shown for reference only.
- ➔ Be sure to wear laser safety goggles when checking optical path and adjusting optical axis.