

METALLIC ND FILTERS

All ulitiQuest Technology neutral-density filters are made with BK7 grade A fine-annealed glass or optical-quality fused silica. A thin film consisting of several special metallic alloys is vacuum-deposited on the substrate. The alloys have been chosen to create a spectral-density curve that is flatter over a wider range than the curves of most pure metals.

Metallic neutral-density filters can be used at any wavelength between 200 nm and 2500 nm (fused silica), or between 350 nm and 2500 nm (BK7).

Two or more neutral-density filters can be used to achieve values of transmittance or density not otherwise available. By combining various filters offered here, 55 separate optical density values may be achieved.

■ Standard Specifications:

Optical Material:	See the table
Dimension Tolerance :	±0.2mm
Wavefront Distortion:	2λ per 25mm
Parallelism:	<3 arc second
Surface Quality:	80-50 scratch and dig
Coating:	Vacuum-deposited metallic alloy
Density Tolerance :	±5%

■ Standard Metallic ND Filters:

Transmission	Optical Density	Dimension(mm)		
		12.5	25.0	50.0
		Product No.	Product No.	Product No.
BK7				
12.59%	0.9	UQT-NDM0101	UQT-NDM0201	UQT-NDM0301
3.162%	1.5	UQT-NDM0102	UQT-NDM0202	UQT-NDM0302
91.20%	0.04	UQT-NDM0103	UQT-NDM0203	UQT-NDM0303
79.43%	0.1	UQT-NDM0104	UQT-NDM0204	UQT-NDM0304
63.10%	0.2	UQT-NDM0105	UQT-NDM0205	UQT-NDM0305
50.12%	0.3	UQT-NDM0106	UQT-NDM0206	UQT-NDM0306
25.12%	0.6	UQT-NDM0107	UQT-NDM0207	UQT-NDM0307
19.95%	0.7	UQT-NDM0108	UQT-NDM0208	UQT-NDM0308
15.85%	0.8	UQT-NDM0109	UQT-NDM0209	UQT-NDM0309
10.00%	1.0	UQT-NDM0110	UQT-NDM0210	UQT-NDM0310
5.01%	1.3	UQT-NDM0111	UQT-NDM0211	UQT-NDM0311
1.00%	2.0	UQT-NDM0112	UQT-NDM0212	UQT-NDM0312
0.3162%	2.5	UQT-NDM0113	UQT-NDM0213	UQT-NDM0313
0.10%	3.0	UQT-NDM0114	UQT-NDM0214	UQT-NDM0314
0.01%	4.0	UQT-NDM0115	UQT-NDM0215	UQT-NDM0315
39.81%	0.4	UQT-NDM0116	UQT-NDM0216	UQT-NDM0316

31.62%	0.5	UQT-NDM0117	UQT-NDM0217	UQT-NDM0317
Fused Silica				
12.59%	0.9	UQT-NDM0118	UQT-NDM0218	UQT-NDM0318
3.162%	1.5	UQT-NDM0119	UQT-NDM0219	UQT-NDM0319
91.20%	0.04	UQT-NDM0120	UQT-NDM0220	UQT-NDM0320
79.43%	0.1	UQT-NDM0121	UQT-NDM0221	UQT-NDM0321
63.10%	0.2	UQT-NDM0122	UQT-NDM0222	UQT-NDM0322
50.12%	0.3	UQT-NDM0123	UQT-NDM0223	UQT-NDM0323
25.12%	0.6	UQT-NDM0124	UQT-NDM0224	UQT-NDM0324
19.95%	0.7	UQT-NDM0125	UQT-NDM0225	UQT-NDM0325
15.85%	0.8	UQT-NDM0126	UQT-NDM0226	UQT-NDM0326
10.00%	1.0	UQT-NDM0127	UQT-NDM0227	UQT-NDM0327
5.01%	1.3	UQT-NDM0128	UQT-NDM0228	UQT-NDM0328
1.00%	2.0	UQT-NDM0129	UQT-NDM0229	UQT-NDM0329
0.3162%	2.5	UQT-NDM0130	UQT-NDM0230	UQT-NDM0330
0.10%	3.0	UQT-NDM0131	UQT-NDM0231	UQT-NDM0331
0.01%	4.0	UQT-NDM0132	UQT-NDM0232	UQT-NDM0332
39.81%	0.4	UQT-NDM0133	UQT-NDM0233	UQT-NDM0333
31.62%	0.5	UQT-NDM0134	UQT-NDM0234	UQT-NDM0334

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

NOTES!

- ➔ 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.