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/ [Metallic Neutral Density Filters UV-VIS-NIR | Attenuate Light by One Order](#)

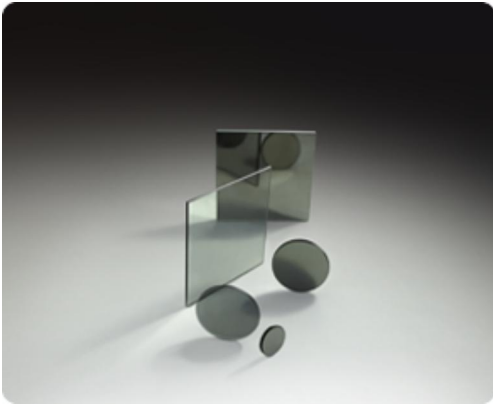


IMAGE QUALITY METALLIC NEUTRAL DENSITY FILTERS UV-VIS-NIR

Neutral density (ND) filters are useful in a number of applications such as attenuators for broadband spectral sources, partial reflectors for light balancing applications and for use as neutral beamsplitters. Metallic type neutral density filters obtain their optical density by depositing a metal alloy coating onto a specific type of substrate which is determined by the wavelength region of interest. TWF 1/4 wave. Parallelism < 5 arcsec. UV Grade Fused Silica substrates available in custom sizes

HIGH VOLUME - This product lends itself to being produced in large quantities at competitive pricing. Email info@andcorp.com or fill out a [contact](#)

[form](#) for details.

<p>BENEFITS</p> <ul style="list-style-type: none"> • Provides attenuation with greater linearity over a wide spectral range • Reduces thermal effects in low-power laser applications • Delivers superior durability 	<p>COMMON APPLICATIONS</p> <ul style="list-style-type: none"> • Calibration • Attenuation • Low-power lasers • Scientific measurements and research • Machine vision & other imaging 	<p>NEUTRAL DENSITY FILTERS</p> <p>Metallic UV-VIS-NIR</p> <p>Metallic VIS-NIR</p> <p>Infrared ND Filters</p> <p>Absorptive</p>
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Please note that all of our ND filters are also available in [sets](#), which include a hardwood storage box.

Custom sizes, densities, wavelengths and substrate materials are [available on request](#).

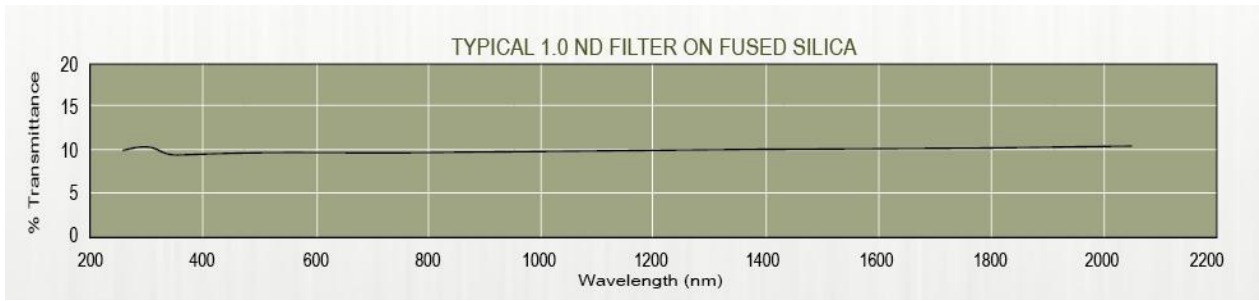
[Contact us](#) for a quotation, whether it is for prototype quantities, or production quantities.

Show More Information

Optical density (OD) is defined as the logarithm to the base 10 of the reciprocal of the transmitted radiant power (T):



$$OD = \log_{10} \left(\frac{1}{T} \right), \text{ or } T = 10^{-OD}$$



Please note that all of our ND filters are also available in [sets](#), which include a hardwood storage box.

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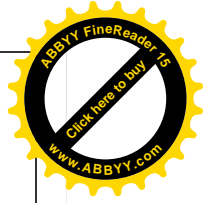
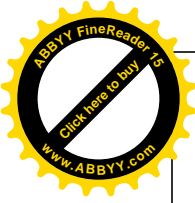
[Contact us](#) for a quotation, whether it is for prototype quantities, or production quantities.

METALLIC NEUTRAL DENSITY SPECIFICATIONS

Transmission Deviation from

Nominal (%)

Optical Density	Nominal Transmission (%)	250-400nm	400-800nm	800-2000nm
0.04	91.0	+/- 3.0	+/- 3.0	+/- 3.0
0.10	79.5	+/- 9.0	+/- 3.0	+/- 9.0
0.15	63.0	+/- 8.0	+/- 3.0	+/- 8.0
0.20	63.0	+/- 6.0	+/- 2.0	+/- 6.0
0.30	50.0	+/- 5.0	+/- 2.0	+/- 5.0
0.40	39.1	+/- 4.0	+/- 2.0	+/- 4.0
0.50	31.6	+/- 4.0	+/- 2.0	+/- 4.0
0.60	25.0	+/- 4.0	+/- 1.5	+/- 4.0
0.70	20.0	+/- 4.0	+/- 1.5	+/- 4.0
0.80	15.5	+/- 4.0	+/- 1.5	+/- 4.0
0.90	12.6	+/- 3.5	+/- 1.0	+/- 3.5
1.00	10.0	+/- 3.5	+/- 1.0	+/- 3.5
1.30	5.0	+/- 3.0	+/- 1.0	+/- 3.0
1.50	3.2	+/- 1.5	+/- 0.5	+/- 1.5
2.00	1.0	+/- 0.5	+/- 0.2	+/- 0.5



2.50	0.32	+/- 0.15	+/- 0.07	+/- 0.15
3.00	0.10	+0.08/-0.06	+/- 0.05	+/- 0.1
4.00	0.01	+/- 0.008	+0.01/-0.008	+/- 0.1

PART NO.	DESCRIPTION	1 - 5 pcs.	6 - 10 pcs.	> 10 pcs.	Stock Status	Buy
004FN46-12.5	Standard UV ND Filter, OD=0.04, 12.5mm diameter	\$82.00	\$69.00	\$58.00	In Stock	<input type="text"/> Buy
004FN46-25	Standard UV ND Filter, OD=0.04, 25mm diameter	\$120.00	\$101.00	\$85.00	In Stock	<input type="text"/> Buy
004FN46-50	Standard UV ND Filter, OD=0.04, 50mm diameter	\$208.00	\$175.00	\$148.00	In Stock	<input type="text"/> Buy
004FN46-50S	Standard UV ND Filter, OD=0.04, 50mm x 50mm	\$208.00	\$175.00	\$148.00	In Stock	<input type="text"/> Buy
010FN46-12.5	Standard UV ND Filter, OD=0.1, 12.5mm diameter	\$82.00	\$69.00	\$58.00	In Stock	<input type="text"/> Buy
010FN46-25	Standard UV ND Filter, OD=0.1, 25mm diameter	\$120.00	\$101.00	\$85.00	In Stock	<input type="text"/> Buy
010FN46-50	Standard UV ND Filter, OD=0.1, 50mm diameter	\$208.00	\$175.00	\$148.00	In Stock	<input type="text"/> Buy
010FN46-50S	Standard UV ND Filter, OD=0.1, 50mm x 50mm	\$208.00	\$175.00	\$148.00	In Stock	<input type="text"/> Buy
015FN46-12.5	Standard UV ND Filter, OD=0.15, 12.5mm diameter	\$82.00	\$69.00	\$58.00	In Stock	<input type="text"/> Buy
015FN46-25	Standard UV ND Filter, OD=0.15, 25mm diameter	\$120.00	\$101.00	\$85.00	In Stock	<input type="text"/> Buy
015FN46-50	Standard UV ND Filter, OD=0.15, 50mm diameter	\$208.00	\$175.00	\$148.00	In Stock	<input type="text"/> Buy
015FN46-50S	Standard UV ND Filter, OD=0.15, 50mm x 50mm	\$208.00	\$175.00	\$148.00	In Stock	<input type="text"/> Buy
020FN46-12.5	Standard UV ND Filter, OD=0.2, 12.5mm diameter	\$82.00	\$69.00	\$58.00	In Stock	<input type="text"/> Buy
020FN46-25	Standard UV ND Filter, OD=0.2, 25mm diameter	\$120.00	\$101.00	\$85.00	In Stock	<input type="text"/> Buy
020FN46-50	Standard UV ND Filter, OD=0.2, 50mm diameter	\$208.00	\$175.00	\$148.00	In Stock	<input type="text"/> Buy
020FN46-50S	Standard UV ND Filter, OD=0.2, 50mm x 50mm	\$208.00	\$175.00	\$148.00	In Stock	<input type="text"/> Buy
030FN46-12.5	Standard UV ND Filter, OD=0.3, 12.5mm diameter	\$82.00	\$69.00	\$58.00	In Stock	<input type="text"/> Buy



	030FN46-25	Standard UV ND Filter, OD=0.3, 25mm diameter	\$120.00	\$101.00	\$85.00	In Stock	<input type="text"/>	Buy
	030FN46-50	Standard UV ND Filter, OD=0.3, 50mm diameter	\$208.00	\$175.00	\$148.00	In Stock	<input type="text"/>	Buy
	030FN46-50S	Standard UV ND Filter, OD=0.3, 50mm x 50mm	\$208.00	\$175.00	\$148.00	In Stock	<input type="text"/>	Buy
	040FN46-12.5	Standard UV ND Filter, OD=0.4, 12.5mm diameter	\$82.00	\$69.00	\$58.00	In Stock	<input type="text"/>	Buy
	040FN46-25	Standard UV ND Filter, OD=0.4, 25mm diameter	\$120.00	\$101.00	\$85.00	In Stock	<input type="text"/>	Buy
	040FN46-50	Standard UV ND Filter, OD=0.4, 50mm diameter	\$208.00	\$175.00	\$148.00	In Stock	<input type="text"/>	Buy
	040FN46-50S	Standard UV ND Filter, OD=0.4, 50mm x 50mm	\$208.00	\$175.00	\$148.00	In Stock	<input type="text"/>	Buy
	050FN46-12.5	Standard UV ND Filter, OD=0.5, 12.5mm diameter	\$82.00	\$69.00	\$58.00	In Stock	<input type="text"/>	Buy
	050FN46-25	Standard UV ND Filter, OD=0.5, 25mm diameter	\$120.00	\$101.00	\$85.00	In Stock	<input type="text"/>	Buy
	050FN46-50	Standard UV ND Filter, OD=0.5, 50mm diameter	\$208.00	\$175.00	\$148.00	In Stock	<input type="text"/>	Buy
	050FN46-50S	Standard UV ND Filter, OD=0.5, 50mm x 50mm	\$208.00	\$175.00	\$148.00	In Stock	<input type="text"/>	Buy
	060FN46-12.5	Standard UV ND Filter, OD=0.6, 12.5mm diameter	\$82.00	\$69.00	\$58.00	In Stock	<input type="text"/>	Buy
	060FN46-25	Standard UV ND Filter, OD=0.6, 25mm diameter	\$120.00	\$101.00	\$85.00	In Stock	<input type="text"/>	Buy
	060FN46-50	Standard UV ND Filter, OD=0.6, 50mm diameter	\$208.00	\$175.00	\$148.00	In Stock	<input type="text"/>	Buy
	060FN46-50S	Standard UV ND Filter, OD=0.6, 50mm x 50mm	\$208.00	\$175.00	\$148.00	In Stock	<input type="text"/>	Buy
	070FN46-12.5	Standard UV ND Filter, OD=0.7, 12.5mm diameter	\$82.00	\$69.00	\$58.00	In Stock	<input type="text"/>	Buy
	070FN46-25	Standard UV ND Filter, OD=0.7, 25mm diameter	\$120.00	\$101.00	\$85.00	In Stock	<input type="text"/>	Buy
	070FN46-50	Standard UV ND Filter, OD=0.7, 50mm diameter	\$208.00	\$175.00	\$148.00	In Stock	<input type="text"/>	Buy
	070FN46-50S	Standard UV ND Filter, OD=0.7, 50mm x 50mm	\$208.00	\$175.00	\$148.00	In Stock	<input type="text"/>	Buy
	080FN46-12.5	Standard UV ND Filter, OD=0.8, 12.5mm diameter	\$82.00	\$69.00	\$58.00	In Stock	<input type="text"/>	Buy



	080FN46-25	Standard UV ND Filter, OD=0.8, 25mm diameter	\$120.00	\$101.00	\$85.00	In Stock	<input type="text"/>	Buy
	080FN46-50	Standard UV ND Filter, OD=0.8, 50mm diameter	\$208.00	\$175.00	\$148.00	In Stock	<input type="text"/>	Buy
	080FN46-50S	Standard UV ND Filter, OD=0.8, 50mm x 50mm	\$208.00	\$175.00	\$148.00	In Stock	<input type="text"/>	Buy
	090FN46-12.5	Standard UV ND Filter, OD=0.9, 12.5mm diameter	\$82.00	\$69.00	\$58.00	In Stock	<input type="text"/>	Buy
	090FN46-25	Standard UV ND Filter, OD=0.9, 25mm diameter	\$120.00	\$101.00	\$85.00	In Stock	<input type="text"/>	Buy
	090FN46-50	Standard UV ND Filter, OD=0.9, 50mm diameter	\$208.00	\$175.00	\$148.00	In Stock	<input type="text"/>	Buy
	090FN46-50S	Standard UV ND Filter, OD=0.9, 50mm x 50mm	\$208.00	\$175.00	\$148.00	In Stock	<input type="text"/>	Buy
	100FN46-12.5	Standard UV ND Filter, OD=1.0, 12.5mm diameter	\$82.00	\$69.00	\$58.00	In Stock	<input type="text"/>	Buy
	100FN46-25	Standard UV ND Filter, OD=1.0, 25mm diameter	\$120.00	\$101.00	\$85.00	In Stock	<input type="text"/>	Buy
	100FN46-50	Standard UV ND Filter, OD=1.0, 50mm diameter	\$208.00	\$175.00	\$148.00	In Stock	<input type="text"/>	Buy
	100FN46-50S	Standard UV ND Filter, OD=1.0, 50mm x 50mm	\$208.00	\$175.00	\$148.00	In Stock	<input type="text"/>	Buy
	130FN46-12.5	Standard UV ND Filter, OD=1.3, 12.5mm diameter	\$100.00	\$84.00	\$71.00	In Stock	<input type="text"/>	Buy
	130FN46-25	Standard UV ND Filter, OD=1.3, 25mm diameter	\$139.00	\$117.00	\$99.00	In Stock	<input type="text"/>	Buy
	130FN46-50	Standard UV ND Filter, OD=1.3, 50mm diameter	\$232.00	\$195.00	\$165.00	In Stock	<input type="text"/>	Buy
	130FN46-50S	Standard UV ND Filter, OD=1.3, 50mm x 50mm	\$232.00	\$195.00	\$165.00	In Stock	<input type="text"/>	Buy
	150FN46-12.5	Standard UV ND Filter, OD=1.5, 12.5mm diameter	\$100.00	\$84.00	\$71.00	In Stock	<input type="text"/>	Buy
	150FN46-25	Standard UV ND Filter, OD=1.5, 25mm diameter	\$139.00	\$117.00	\$99.00	In Stock	<input type="text"/>	Buy
	150FN46-50	Standard UV ND Filter, OD=1.5, 50mm diameter	\$232.00	\$195.00	\$165.00	In Stock	<input type="text"/>	Buy
	150FN46-50S	Standard UV ND Filter, OD=1.5, 50mm x 50mm	\$232.00	\$195.00	\$165.00	In Stock	<input type="text"/>	Buy
	180FN46-12.5	Standard UV ND Filter, OD=1.8, 12.5mm diameter	\$100.00	\$84.00	\$71.00	In Stock	<input type="text"/>	Buy



	180FN46-25	Standard UV ND Filter, OD=1.8, 25mm diameter	\$139.00	\$117.00	\$99.00	In Stock	<input type="text"/>	Buy
	180FN46-50	Standard UV ND Filter, OD=1.8, 50mm diameter	\$232.00	\$195.00	\$165.00	In Stock	<input type="text"/>	Buy
	180FN46-50S	Standard UV ND Filter, OD=1.8, 50mm x 50mm	\$232.00	\$195.00	\$165.00	In Stock	<input type="text"/>	Buy
	200FN46-12.5	Standard UV ND Filter, OD=2.0, 12.5mm diameter	\$100.00	\$84.00	\$71.00	In Stock	<input type="text"/>	Buy
	200FN46-25	Standard UV ND Filter, OD=2.0, 25mm diameter	\$139.00	\$117.00	\$99.00	In Stock	<input type="text"/>	Buy
	200FN46-50	Standard UV ND Filter, OD=2.0, 50mm diameter	\$232.00	\$195.00	\$165.00	In Stock	<input type="text"/>	Buy
	200FN46-50S	Standard UV ND Filter, OD=2.0, 50mm x 50mm	\$232.00	\$195.00	\$165.00	In Stock	<input type="text"/>	Buy
	250FN46-12.5	Standard UV ND Filter, OD=2.5, 12.5mm diameter	\$100.00	\$84.00	\$71.00	In Stock	<input type="text"/>	Buy
	250FN46-25	Standard UV ND Filter, OD=2.5, 25mm diameter	\$139.00	\$117.00	\$99.00	In Stock	<input type="text"/>	Buy
	250FN46-50	Standard UV ND Filter, OD=2.5, 50mm diameter	\$232.00	\$195.00	\$165.00	In Stock	<input type="text"/>	Buy
	250FN46-50S	Standard UV ND Filter, OD=2.5, 50mm x 50mm	\$232.00	\$195.00	\$165.00	In Stock	<input type="text"/>	Buy
	300FN46-12.5	Standard UV ND Filter, OD=3.0, 12.5mm diameter	\$100.00	\$84.00	\$71.00	In Stock	<input type="text"/>	Buy
	300FN46-25	Standard UV ND Filter, OD=3.0, 25mm diameter	\$139.00	\$117.00	\$99.00	In Stock	<input type="text"/>	Buy
	300FN46-50	Standard UV ND Filter, OD=3.0, 50mm diameter	\$232.00	\$195.00	\$165.00	In Stock	<input type="text"/>	Buy
	300FN46-50S	Standard UV ND Filter, OD=3.0, 50mm x 50mm	\$232.00	\$195.00	\$165.00	In Stock	<input type="text"/>	Buy
	400FN46-12.5	Standard UV ND Filter, OD=4.0, 12.5mm diameter	\$100.00	\$84.00	\$71.00	In Stock	<input type="text"/>	Buy
	400FN46-25	Standard UV ND Filter, OD=4.0, 25mm diameter	\$139.00	\$117.00	\$99.00	In Stock	<input type="text"/>	Buy
	400FN46-50	Standard UV ND Filter, OD=4.0, 50mm diameter	\$232.00	\$195.00	\$165.00	In Stock	<input type="text"/>	Buy
	400FN46-50S	Standard UV ND Filter, OD=4.0, 50mm x 50mm	\$232.00	\$195.00	\$165.00	In Stock	<input type="text"/>	Buy

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Andover Corporation

4 Commercial Drive | Salem, NH 03079-2800 | USA

Toll Free (US): [+1 \(888\) 893-9992](tel:+18888939992) | International: [+01 \(603\) 893-6888](tel:+016038936888) | Fax: +1 (603) 893-6508 | e-mail: info@andcorp.com



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