

## NEUTRAL DENSITY ABSORPTION TYPE FILTERS AT 450 – 650 nm

### Specifications

Material	Neutral density colour glass
Surface quality	60 – 40 scratch & dig (MIL-PRF-13830B)
Surface flatness	1λ per inch @ 633 nm
Parallelism	3 arcmin
Diameter tolerance	+0.0 / -0.2 mm
Clear aperture	90% of the diameter
Design wavelength	450 – 650 nm
Optical density tolerance	±5% of density

Neutral density absorption type filters decrease the intensity of light without altering the relative spectral distribution of energy. They are used to filter the entire visible spectrum evenly, allowing light reduction without influencing the colour or contrast. Attenuation is accomplished by using light-absorbing glass.

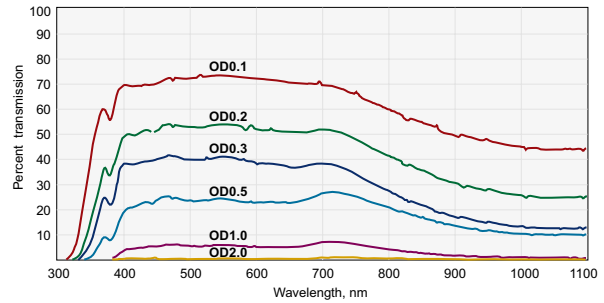
### Related products

Variable Wheel Attenuator 990-0604

[Find more at EksmaOptics.com](http://EksmaOptics.com)

Filter Holder 830-0060A, 830-0070A

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External transmission curves  
(include reflections from uncoated surfaces)

Optical Density	Internal Transmittance, % @ 546 nm	Ø25.4 mm		25.4x25.4 mm		Ø50.8 mm		50.8x50.8 mm	
		Catalogue nr.	Price, EUR	Catalogue nr.	Price, EUR	Catalogue nr.	Price, EUR	Catalogue nr.	Price, EUR
0.05	89	240-2500	25	240-2600	26	240-5000	67	240-5600	66
0.1	80	240-2501	25	240-2601	26	240-5001	67	240-5601	66
0.2	63	240-2502	25	240-2602	26	240-5002	67	240-5602	66
0.3	50	240-2503	25	240-2603	26	240-5003	67	240-5603	66
0.4	40	240-2504	25	240-2604	26	240-5004	67	240-5604	66
0.5	32	240-2505	25	240-2605	26	240-5005	67	240-5605	66
0.6	25	240-2506	25	240-2606	26	240-5006	67	240-5606	66
0.7	20	240-2507	25	240-2607	26	240-5007	67	240-5607	66
0.8	15	240-2508	25	240-2608	26	240-5008	67	240-5608	66
0.9	12.5	240-2509	25	240-2609	26	240-5009	67	240-5609	66
1.0	10	240-2510	25	240-2610	26	240-5010	67	240-5610	66
1.5	3	240-2515	25	240-2615	26	240-5015	67	240-5615	66
2.0	1	240-2520	26	240-2620	28	240-5020	68	240-5620	67
3.0	0.1	240-2530	28	240-2630	29	240-5030	70	240-5630	68
4.0	0.01	240-2540	29	240-2640	30	240-5040	71	240-5640	70
5.0	0.001	240-2550	25	240-2650	26	240-5050	60	240-5650	59
6.0	0.0001	240-2560	26	240-2660	27	240-5060	61	240-5660	60