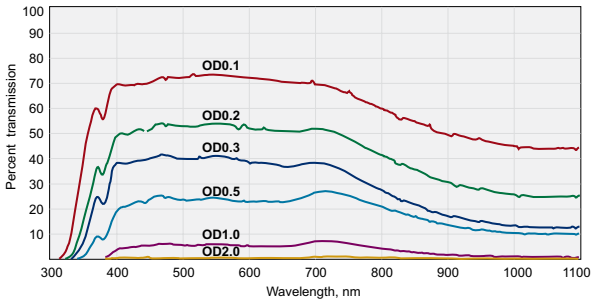
NEUTRAL DENSITY ABSORPTION TYPE FILTERS AT 450-650 nm

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.

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



External transmission curves (include reflections from uncoated surfaces)

Optical Density	Internal Transmittance, % @ 633 nm	Code				Price, EUR
		Ø25.4 mm	25.4x25.4 mm	Ø50.8 mm	50.8x50.8 mm	Ø25.4 / 25.4x25.4 / / Ø50.8 / 50.8x50.8
0.1	80	**240-2501**	**240-2601**	**240-5001**	**240-5601**	21 / 22 / 56 / 55
0.2	63	**240-2502**	**240-2602**	**240-5002**	**240-5602**	21 / 22 / 56 / 55
0.3	50	**240-2503**	**240-2603**	**240-5003**	**240-5603**	21 / 22 / 56 / 55
0.5	32	**240-2505**	**240-2605**	**240-5005**	**240-5605**	21 / 22 / 56 / 55
1.0	10	**240-2510**	**240-2610**	**240-5010**	**240-5610**	21 / 22 / 56 / 55
2.0	1.0	**240-2520**	**240-2620**	**240-5020**	**240-5620**	22 / 23 / 57 / 56
3.0	0.1	**240-2530**	**240-2630**	**240-5030**	**240-5630**	23 / 24 / 58 / 57
4.0	0.01	**240-2540**	**240-2640**	**240-5040**	**240-5640**	24 / 25 / 59 / 58

RELATED PRODUCTS

Variable Wheel Attenuator 990-0604

See page 7.27

Filter Holder 830-0060A, 830-0070A

See page 8.52