

asphericon StockOptics

a | High-NA

Precision-polished aspheres are especially suitable for your demanding laser applications thanks to a superior surface quality.

Key Benefits:

- = Outstanding surface form deviation of $RMS_s \leq 0.5 \mu\text{m}$
- = Decrease of chromatic aberrations by use of low dispersion material
- = Available with 3 standard coatings¹:
 - A: $R_{MAX} < 1.0\%$, $R_{AVG} \leq 0.4\%$, 400-600 nm, AOI=0°
 - B: $R_{MAX} < 1.0\%$, $R_{AVG} \leq 0.4\%$, 600-1050 nm, AOI=0°
 - C: $R_{MAX} < 1.0\%$, $R_{AVG} \leq 0.4\%$, 1000-1600 nm, AOI=0°
- = Off-the-shelf delivery
- = RoHS compliance

Lens description		
Surface form deviation (RMS) ²	[μm]	≤ 0.5
EFL tolerance	[%]	≤ 0.1
Surface imperfections	[Scratch-Dig]	60 - 40
Diameter tolerance	[mm]	+0/-0.05
Center thickness tolerance ³	[mm]	+0.05
Clear aperture	[%]	≥ 90

Product code	Diameter	EFL	NA	f/d	WD	Material
AHL10-08	10 mm	8 mm	0.55	0.8	6.0 mm	S-LAH64
AHL12-10 ⁴	12.5 mm	10 mm	0.55	0.8	7.6 mm	S-LAH64
AHL15-12 ⁴	15 mm	12 mm	0.55	0.8	9.0 mm	S-LAH64
AHL18-15 ⁴	18 mm	15 mm	0.54	0.83	11.5 mm	S-LAH64
AHL20-18 ⁴	20 mm	18 mm	0.49	0.9	14.0 mm	S-LAH64
AHL25-20 ⁴	25 mm	20 mm	0.54	0.8	15.7 mm	S-LAH64
AHL30-26	30 mm	26 mm	0.51	0.87	20.6 mm	S-LAH64
AHL45-32	45 mm	32 mm	0.61	0.71	24.2 mm	S-LAH64
AHL50-40	50 mm	40 mm	0.54	0.8	31.3 mm	S-LAH64

¹ Custom coatings available upon request. | ² RMSI corresponds to ISO 10110-5 (surface form tolerances). | ³ For lenses AHL45-32, AHL50-40 please consider a center thickness tolerance of ± 0.1 . | ⁴ Also available as mounted lens. | General: Technical parameters and prices are subject to change without prior notice.



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