

asphericon StockOptics

a|UV-grade fused silica

UV-grade fused silica lenses are available in three diameters (12.5, 25, 50) and are optimized for multiple applications, as prototypes in test devices or as OEM-applications for beam-focusing or collimating.

Key Benefits:

- = Outstanding surface form deviation of $RMS_s \leq 0.3 \mu\text{m}$
- = Suitable for high-power laser applications
- = Available with 4 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°
 - X: $R_{MAX} < 1.0\%$, $R_{AVG} \leq 0.4\%$, 240-380 nm, AOI=0°
- = Off-the-shelf delivery
- = RoHS compliance

Lens description		
Surface form deviation (RMS) ²	[μm]	≤ 0.3
EFL tolerance	[%]	≤ 0.1
Surface imperfections	[Scratch-Dig]	20 - 20
Diameter tolerance	[mm]	+0/-0.05
Center thickness tolerance ³	[mm]	+0.05 ³
Clear aperture	[%]	≥ 90

Product code	Diameter	EFL	NA	f/d	WD	Material ⁴
AFL12-15 ⁵	12.5 mm	15 mm	0.39	1.2	12.3 mm	Fused Silica
AFL12-20 ⁵	12.5 mm	20 mm	0.29	1.6	17.3 mm	Fused Silica
AFL25-25 ⁵	25 mm	25 mm	0.48	1.0	17.0 mm	Fused Silica
AFL25-30 ⁵	25 mm	30 mm	0.39	1.2	23.3 mm	Fused Silica
AFL25-40 ⁵	25 mm	40 mm	0.29	1.6	34.6 mm	Fused Silica
AFL50-60	50 mm	60 mm	0.39	1.2	48.3 mm	Fused Silica
AFL50-80	50 mm	80 mm	0.29	1.6	70.6 mm	Fused Silica

¹ Custom coatings available upon request. | ² RMS_s corresponds to ISO 10110-5 (surface form tolerances). | ³ For AFL50-60, AFL50-80, please consider a center thickness tolerance of ± 0.1 . | ⁴ Typically used J-Fiber SQ 1 or equivalent corning 7980 quality. | ⁵ Also available as mounted lens. | General: Technical parameters and prices are subject to change without prior notice.



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