

asphericon StockOptics

# a|Axicons

asphericon's exclusive selection of 1" and 2" axicons have a superior surface roughness and can be used for high performance UV-applications.

### Key Benefits:

- = Outstanding surface form deviation of  $RMS_i < 0.07 \mu m$
- = Suitable for high-power laser applications
- = Available with 4 standard coatings<sup>1</sup>:
  - 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 <sub>i</sub> ) <sup>2</sup>	[μm]	< 0.07
Surface imperfections	[Scratch-Dig]	40 - 20
Diameter tolerance	[mm]	+0/-0.1
Center thickness tolerance	[mm]	+0.1
Clear aperture	[%]	> 90

Product code	Diameter	Angle	Edge Thickness	$\lambda_{Design}$	Material
XFL25-005 <sup>3</sup>	25.4 mm <sup>4</sup>	0.5°	5 mm	780 nm	Fused Silica
XFL25-010 <sup>3</sup>	25.4 mm <sup>4</sup>	1.0°	5 mm	780 nm	Fused Silica
XFL25-020 <sup>3</sup>	25.4 mm <sup>4</sup>	2.0°	5 mm	780 nm	Fused Silica
XFL25-050 <sup>3</sup>	25.4 mm <sup>4</sup>	5.0°	5 mm	780 nm	Fused Silica
XFL25-100 <sup>3</sup>	25.4 mm <sup>4</sup>	10.0°	5 mm	780 nm	Fused Silica
XFL25-200 <sup>3</sup>	25.4 mm <sup>4</sup>	20.0°	5 mm	780 nm	Fused Silica
XFL50-005	50.8 mm <sup>5</sup>	0.5°	8 mm	780 nm	Fused Silica
XFL50-010	50.8 mm <sup>5</sup>	1.0°	8 mm	780 nm	Fused Silica
XFL50-020	50.8 mm <sup>5</sup>	2.0°	8 mm	780 nm	Fused Silica
XFL50-050	50.8 mm <sup>5</sup>	5.0°	8 mm	780 nm	Fused Silica
XFL50-100	50.8 mm <sup>5</sup>	10.0°	8 mm	780 nm	Fused Silica
XFL50-200	50.8 mm <sup>5</sup>	20.0°	8 mm	780 nm	Fused Silica

1 Custom coatings available upon request. | 2 RMS<sub>i</sub> corresponds to ISO 10110-5 (surface form tolerances). | 3 Also available as mounted lens. | 4 Conical tip, Clear Aperture 2.3-23 mm, smaller conical tips on request. | 5 Conical tip, Clear Aperture 4.6-46 mm, smaller conical tips on request. | General: Technical parameters and prices are subject to change without prior notice.



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