

HIGH-END FINISHING

Dimensions [ISO 10110-1]		
Diameter	mm	6 - 300
Tolerance	mm	± 0.03
Center thickness	mm	< 60
Tolerance	mm	± 0.01
Surface form [ISO 10110-1; 12]		geometry dependent up to
Radius of curvature - local cc	mm	15
Clear aperture	% of Ø	90
Clear aperture surface slope	degree	75
Surface form tolerances (ISO 10110-5) and Aspheric surfaces (ISO 10110-12)		
3/A (B, C) RMSi < D; slope < F; slope integration length = G; spatial sampling resolution = H; see also ISO 14999-4		
Tolerance of radius of curvature	%	± 0.02
Sagitta deviation - A (Power)	fringe (µm)	0.30 (0.08)
Irregularity - B (PV)	fringe (µm)	0.30 (0.08)
Rotational invariant irregularity - C	fringe (µm)	0.20 (0.05)
RMS irregularity - RMS _i - D	fringe (µm)	0.10 (0.03)
Slope tolerance - F / G / H	arc sec/mm/mm	12/ 1 / 0.1
Centration [ISO 10110-6] 4/ σ (L)		
Edge thickness variation (defines tilt angle)	µm	5
Tilt angle of the aspheric surface to the second surface - σ	arc min	0.35
Lateral displacement of the aspheric to the edge of the lens - L	mm	0.01
Lateral displacement of the aspheric to the second surface - L	mm	0.01
Surface imperfections [ISO 10110-7; 5/ N x A; L N " x A" ⁴]		
Dig - N x A ¹		2 x 0.04
Scratches - L N " x A" ⁴		L2 x 0.04
MIL - Scratch / Dig		20 - 10
Surface texture [ISO 10110-8]		
Surface roughness - Rq	nm	0.50
Measurement		
Full-surface interferometric measurement		guaranteed