

DIN ISO 10110-5:2016-04 (E)

Optics and photonics - Preparation of drawings for optical elements and systems - Part 5: Surface form tolerances (ISO 10110-5:20 15)

Contents		Page
National foreword		3
National Annex NA (informative) Bibliography		5
Introduction		6
1	Scope	7
2	Normative references	7
3	Terms and definitions	7
4	Specification of tolerances for surface form deviation	8
4.1	General	8
4.2	Units	8
4.3	Wavelength	9
5	Indication in drawings	9
5.1	General	9
5.2	Structure of the indication based on code number	9
5.2.1	General	9
5.2.2	Code number	9
5.2.3	Basic forms	10
5.2.4	Additional forms	12
5.2.5	Area	14
5.2.6	Location	14
5.3	Structure of the indication in tabular form	15
5.4	Specification of deviations in sets of Zernike coefficients in tabular form	15
6	Examples of tolerance indications	16
6.1	Examples for indication based on code number	16
6.2	Examples for indication based on a table	18
6.2.1	Aspheric surface	18
6.2.2	XY - polynomials described surface (Cartesian coordinates)	19
6.2.3	$\rho\phi$ -polynomials described surface (polar coordinates)	19
6.2.4	Example for specification of deviations in sets of Zernike coefficients in tabular form	19
Annex A (informative) Relationship between power deviation tolerance and radius of curvature tolerance		21
Annex B (informative) Comparison of ISO 10110-5 and ISO 14999-4 corresponding nomenclature, functions, and values		22
Bibliography		26