

ISO 23584-2:2012-08 (E)

Optics and photonics - Specification of reference dictionary - Part 2: Classes' and properties' definitions

Contents		Page
Foreword		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Explanatory notes	1
5	Definition classes	3
5.1	ISOTC172-AAA005-001: 01 generalities, terminology, standardization, documentation	3
5.2	ISOTC172-AAA018-001: quantities	4
5.3	ISOTC172-AAA008-001: quantities of light and related electromagnetic radiations	5
5.4	ISOTC172-AAA012-001: 07 mathematics, natural sciences	6
5.5	ISOTC172-AAA019-001: 11 health care technology	7
5.6	ISOTC172-AAA001-001: 13 environment, health protection, safety	8
5.7	ISOTC172-AAA009-001: 17 metrology and measurement	9
5.8	ISOTC172-AAA015-001: 21 mechanical systems and components for general use	10
5.9	ISOTC172-AAA028-001: 31 electronics	11
5.10	ISOTC172-AAA003-001: 37 image technology	12
5.11	ISOTC172-AAA013-001: functional coating	13
5.12	ISOTC172-AAA011-001: optical element	14
5.13	ISOTC172-AAA002-001: optical material	15
5.14	ISOTC172-AAA010-001: optical glass	16
5.15	ISOTC172-AAA014-001: optical system	17
5.16	ISOTC172-AAA007-001: optically used surface	18
5.17	ISOTC172-AAA017-001: diffractive surface	19
5.18	ISOTC172-AAA006-001: dioptric surface	20
6	Properties	21
6.1	ISOTC172-AAA036-001: Abbe number referred to d-line	21
6.2	ISOTC172-AAA055-001: Abbe number referred to e-line	22
6.3	ISOTC172-AAA075-001: acid resistance	23
6.4	ISOTC172-AAA069-001: acid resistance class	24
6.5	ISOTC172-AAA074-001: alkali resistance	26
6.6	ISOTC172-AAA070-001: alkali resistance class	27
6.7	ISOTC172-AAA057-001: categories of optics	29
6.8	ISOTC172-AAA053-001: coefficient B1 of Sellmeier-equation	31
6.9	ISOTC172-AAA054-001: coefficient B2 of Sellmeier-equation	32
6.10	ISOTC172-AAA035-001: coefficient B3 of Sellmeier-equation	33
6.11	ISOTC172-AAA056-001: coefficient C1 of Sellmeier-equation	34
6.12	ISOTC172-AAA038-001: coefficient C2 of Sellmeier-equation	35
6.13	ISOTC172-AAA059-001: coefficient C3 of Sellmeier-equation	36
6.14	ISOTC172-AAA085-001: coefficient of mean linear thermal expansion (-30°C;+70°C)	37
6.15	ISOTC172-AAA077-001: colour code	38
6.16	ISOTC172-AAA033-001: direction of curvature of an optical surface	39
6.17	ISOTC172-AAA072-001: identification of visible surface changes	40
6.18	ISOTC172-AAA076-001: internal transmittance	42
6.19	ISOTC172-AAA078-001: Knoop hardness per ISO 9385:1990	43
6.20	ISOTC172-AAA046-001: manipulation of light	44

6.21	ISOTC172-AAA029-001: manufacturer of optical glass	45
6.22	ISOTC172-AAA088-001: material imperfection	46
6.23	ISOTC172-AAA037-001: material imperfection in terms of bubbles and inclusions	47
6.24	ISOTC172-AAA060-001: material imperfection in terms of stress birefringence	48
6.25	ISOTC172-AAA042-001: material imperfections in terms of striae	49
6.26	ISOTC172-AAA067-001: material imperfections of refractive index	51
6.27	ISOTC172-AAA050-001: mathematical description of surface	53
6.28	ISOTC172-AAA058-001: n() as per Sellmeier-equation	54
6.29	ISOTC172-AAA048-001: name of an optical coating	56
6.30	ISOTC172-AAA066-001: glass type	57
6.31	ISOTC172-AAA043-001: optically effective diameter	58
6.32	ISOTC172-AAA040-001: partial dispersion	59
6.33	ISOTC172-AAA039-001: principal dispersion (nF' - nC')	60
6.34	ISOTC172-AAA062-001: principal dispersion (nF - nC)	61
6.35	ISOTC172-AAA073-001: phosphate resistance	62
6.36	ISOTC172-AAA071-001: phosphate resistance class	63
6.37	ISOTC172-AAA030-001: primary function of the coating	65
6.38	ISOTC172-AAA061-001: refractive index	67
6.39	ISOTC172-AAA068-001: refractive index at spectral wavelength	68
6.40	ISOTC172-AAA052-001: scope according to ICS	69
6.41	ISOTC172-AAA049-001: surface adding characteristic	71
6.42	ISOTC172-AAA044-001: surface form deviation - irregularity	72
6.43	ISOTC172-AAA063-001: surface form deviation - rotationally invariant irregularity	73
6.44	ISOTC172-AAA065-001: surface form deviation - sagitta deviation	74
6.45	ISOTC172-AAA087-001: surface imperfections	75
6.46	ISOTC172-AAA041-001: surface imperfections - coating blemishes	76
6.47	ISOTC172-AAA034-001: surface imperfections - edge chips	77
6.48	ISOTC172-AAA051-001: surface imperfections - long scratches	78
6.49	ISOTC172-AAA064-001: surface imperfections-general surface imperfection	79
6.50	ISOTC172-AAA084-001: temperature coefficient nabs/T of refractive index	80
6.51	ISOTC172-AAA083-001: temperature coefficient nrel/T of refractive index	81
6.52	ISOTC172-AAA082-001: temperature interval	82
6.53	ISOTC172-AAA081-001: annealing point	84
6.54	ISOTC172-AAA080-001: softening point	85
6.55	ISOTC172-AAA086-001: thickness of a piece of material	86
6.56	ISOTC172-AAA032-001: tilt angle of a spherical surface	87
6.57	ISOTC172-AAA079-001: transformation temperature	88
6.58	ISOTC172-AAA047-001: wavelength	89
6.59	ISOTC172-AAA031-001: wavelength for special spectral lines	90
7	Application classes	94
7.1	ISOTC172-AAA020-001: ISOTC172 optics and photonics	94
7.2	ISOTC172-AAA021-001: ISOTC172SC01 fundamental standards	95
7.3	ISOTC172-AAA022-001: ISOTC172SC03 optical materials and components	96
7.4	ISOTC172-AAA023-001: ISOTC172SC04 telescopic systems	97
7.5	ISOTC172-AAA024-001: ISOTC172SC05 microscopes and endoscopes	98
7.6	ISOTC172-AAA025-001: ISOTC172SC06 geodetic and surveying instruments	99
7.7	ISOTC172-AAA026-001: ISOTC172SC07 ophthalmic optics and instruments	100
7.8	ISOTC172-AAA027-001: ISOTC172SC09 electro-optical systems	101
	Bibliography	102