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**NATIONAL STANDARD OF THE
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Microscopes -- Spectral filters

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(English Translation)

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Foreword

This standard is modified using the ISO 8577.:1997 "Microscope Spectrum Filter".

The main technical differences between this standard and ISO 8577.:1997 are.

- some of the normative references in Chapter 2 and the international standards in Table 1 are replaced by existing national standards;

- consider China's national conditions, in Table 1 "diameter recommended value d" column to increase the A-and B-type filter diameter of 14mm;

- the international standard in the diameter d tolerance using d11 said, easy to use;

- add a chapter to incorporate the contents of the second half of Chapter 1.

For ease of use, this standard has also made the following editorial changes.

- the word "international standard" is changed to "this standard";

- Explain the preamble of international standards.

This standard is proposed by the China Machinery Industry Federation.

This standard is nationalized by the National Committee for the Standardization of Optics and Photonics (SAC/TC103).

The drafting of this standard. Shanghai University of Science and Technology, Jiangnan Yongxin Optical Co., Ltd., Ningbo Shunyu Instrument Co., Ltd., Ningbo Yongxin Optical Unit Co., Ltd., Ningbo Teaching Instrument Co., Ltd., Ningbo Huaguang Precision Instrument Co., Ltd., Wuzhou Oka Optical Instrument Company, Nanjing Dongli to photoelectric Industrial Co., Ltd., Mike Audi Industrial Group Co., Ltd., Chongqing Photoelectric Instrument Co., Ltd., Guiyang Xintian Optoelectronics Technology Limited the company.

1 Scope

This standard specifies the recommended dimensions for the interchangeable spectral filter diameter of the microscope and the material defects and processes of the filter Flaws.

2 Normative reference documents

The terms of the following documents are hereby incorporated by reference into this standard. Whichever is the date of the reference file, which is followed by all (Excluding corrigenda) or revisions do not apply to this standard, however, encourage the parties to reach an agreement under this standard Whether you can use the latest version of these files. For undated references, the latest edition applies to this standard.

GB/T 1185 Optical parts surface flaws GB/T 2831 Surface deviation of optical parts GB/T 7661 Optical parts Bubble degree Optical drawing

3 Type

Microscope spectrum filter type is divided into A type, B type, the specific requirements are as follows.

Type A. Filters for imaging and illuminating optical paths.

Type B. filter used to illuminate the optical path.

4 Requirements

Microscope spectral filters are required to be specified in Table 1.

Table 1 Spectral filter diameter, allowable material defects and process flaws

parameter

Parameter value

Type A Type B

Diameter recommended value d/mm 14 20 25 14 20 25 32 45 Diameter d tolerance level
d11 Permissible diameter of the flaw test range/mm 1 Surface flaws a Press GB/T 1185 5/2
x 0.10 5/4 x 0.16 5/2 x 0.25 5/4 x 0.25 5/3 x 0.40 5/5 x 0.40 Stripe b by GB/T 13323-2009

Table B.2, Table B.3

2/-; 4 2/-;

Tolerance of surface deviation c According to GB/T 2831 3/3 (0.5) 3/20 (10) Tolerance of
surface structure d According to GB/T 13323-2009

Table C.1, Table C.2

P3 P2

Bubble degree e according to GB/T 7661 1/2 x 0.10 1/2 x 0.25 1/3 x 0.40 Parallelism ≤ 5
' ≤ 20 '