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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 23285-2009

**Micrographics -- Aperture cards -- Method of measuring
thickness of buildup area**

缩微摄影技术 开窗卡增厚区厚度的测量方法

(English Translation)

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Foreword

This standard is equivalent to using ISO 6342. "Methods of measurement Micrographics aperture cards thickening thickness" 2003 (English Version) technology content.

This standard makes the following editorial changes.

- Use the "standard" instead of "this International Standard";
- Deleted international standards foreword, preface written this standard;
- Remove the introduction of international standards;
- Normative documents cited by the national standards instead of the corresponding international standards;
- Deleted the article number "4.1";
- Use the decimal symbol instead of the international standard decimal symbol " , . " , " ;
- Table 1 unit of measure "μ" amended to "μm".

Appendix A of this standard is an informative annex.

This Standard Document Imaging Technology by the National Standardization Technical Committee (SAC/TC86) and focal points.

This standard was drafted. National Information Technology Standardization Technical Committee document the images of four clubs.

1 Scope

This standard specifies the aperture card (card capture card and copy) thickening measurement zone thickness.

This standard applies to all types of aperture cards thickening measurement zone thickness.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 451.3-2002 Paper and board - Determination of thickness (idt ISO 534. 1988) GB/T 6159.1-2003 Micrographics - Vocabulary - Part 1. General terms (ISO 6196-1:1993, MOD) GB/T 6159.4-2003 Micrographics - Vocabulary - Part 4. Materials and packaging (ISO 6196-4:1998, MOD)

3 Terms and Definitions

Terms and definitions GB/T 6159.1-2003 and GB/T 6159.4-2003 established apply to this standard.

4 Instrument

Measuring instruments should be electric or manual type static load dial micrometer. The preferred type electric micrometer, the movable surface moving speed of about 0.8mm/s. Activities micrometer surface pressure surface, that should be rounded, with a diameter of $16\text{mm} \pm 0.5\text{mm}$. That plane fixing surface area not less than the surface activity, surface activity at the zero position should be in full contact on a fixed surface. Activities should face along a plane perpendicular to the fixed axis mobile. Activities should face sample stably pressure of $50\text{kPa} \pm 5\text{kPa}$.

According to the provisions of GB/T 451.3-2002, and Table 1 shows the micrometer performance parameters.

Table 1 micrometer performance parameters

Micrometer Performance	Maximum allowable value	Indication error	Measuring surface
between two parallel error	Repeatability error (standard deviation)	$2.5\mu\text{m}$ or 0.5%	$5\mu\text{m}$ or 1%
		$2.5\mu\text{m}$ or 0.5%	

Note 1: The maximum allowable value in the table refers to the larger of two values.

Note 2: The error is expressed as a percentage, refers to the thickness of the sample based on a percentage, therefore, for some materials, a given micrometer may meet this

Table requirements, and other materials may not meet.

5 Adjust and test environment

Before the test, the sample is adjusted to deal with aperture cards, loose pile of time not less than 6h. It should be at a temperature of $(23 \pm 1) ^\circ\text{C}$, relative Humidity adjustment and testing $(50 \pm 2)\%$ of the environment.

6.1 General

If you use the manual type micrometer, activities should be reduced to the inner surface of the sample from the surface of 0.0075mm, then measure. If you use electricity GB/T 23285-2009/ISO 6342:2003