

ICS 01.040.37; 37.080
CCS A 14



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

GB/T 6159.5-2011

Replacing GB/T 6159.5-2000

**Micrographics -- Vocabulary -- Part 5: Quality of images,
legibility, inspection**

缩微摄影技术 词汇 第5部分：影像的质量、可读性和检查

(English Translation)

Issued on: July 29, 2011

Implemented on: December 1, 2011

Issued by: Standardization Administration of China

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Foreword

GB/T 6159 "Micrographics vocabulary" is divided into nine sections.

- Part 1. General terms;
- Part 2. layout and image recording method;
- Part 3. film processing;
- Part 4. Materials and packaging;
- Part 5. image quality, readability and inspection;
- Part 6. Equipment;
- Part 7. Computer Micrographics;
- Part 8. Application;
- Part 10. index.

This is Part 5 GB/T 6159's.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This part is GB/T 6159.5-2000 "Micrographics - Vocabulary Part V. image quality, readability and check" Amendments.

This section compared with the GB/T 6159.5-2000, the main technical changes are as follows.

- With Normative references in GB/T 18405-2008 "Micrographics - ISO character and ISO test chart No. 1 special Sign their use "instead of ISO 446:1991" Micrographics --- features ISO character and ISO test chart No. 1 and make Use "and" 3.18 "by GB/T in 18405-2008" ISO test chart No. 1 "instead of GB/T 6159.5-2000 in the "Figure 3ISO No.1 test chart";
- Increasing the GB/T 6159.1-2003 normative reference document, GB/T 6159.3-2003,

GB/T 6159.4-2003, GB/T 6159.6-2003, GB/T 6161-2008, GB/T 15237.1-2000 six documents, and in the "3.19" with GB/T 6161-2008 in the "drawing number 1ISO 2 force resolution test pattern" instead of GB/T 6159.5-2000 in "Figure 2 4ISO test chart pattern";

--- Increased "(film) density" of terms and their definitions;

--- Amended some of the terms and definitions. (Mainly include. resolution, resolving power, the net density, ISO test chart No. 1, ISO 2 test diagram Thus, micro-test chart, average slope), such as. the term "pure density netdensity" to "net density netdensity", according to the British the original version of the text, the "two specific points the term" average slope "of the curve is respectively 0.1 and higher image density sheet Foundation fog density of 1.2 corresponds to a point "with" two specific points on the curve are, respectively, higher than the dense fog sheet Foundation Degree (3.11) density 0.1 and density of 1.2 corresponds to a point ";

--- Coordination of the GB/T 6159 in this part of consistency with the rest of the term, such as the. "Film by normal rinse" to "film After conventional treatment. " this section compared with the GB/T 6159.5-2000, major editorial changes are as follows.

--- Remove GB/T 6159.5-2000 the "ISO foreword";

--- Delete "informative Annex A";

--- Increasing the "Introduction";

--- Added "pinyin index" and "English word corresponding to the index." the partial modification of the use of ISO 6196-5. 1987 "Micrographics - Vocabulary - Part 5. Image quality, readability and inspection" (English Chinese Version).

This section in the overall choreography and ISO 6196-5. 1987 main differences are as follows.

--- This section does not set up articles;

--- Deletion of Chapter 1 and Chapter 2 outlines the principles and rules of the content portion;

--- The "scope" and "normative references" respectively as Chapters 1 and 2 of this section, and the terminology for instructions and data Way of expression enshrined introduction;

--- Added "pinyin index." this part of ISO 6196-5. 1987 as compared to the main technical changes are as follows.

--- With GB/T 18405-2008/ISO 446. in 2004 "ISO test chart No. 1" instead of GB/T 6159.5-2000 in "Figure 3ISO test chart No. 1";

--- With GB/T 6161-2008/ISO 3334:2006 in the "drawing number 1ISO 2 force resolution test pattern" instead of GB/T 6159.5-in 2000, "drawing number 4ISO 2 test chart pattern";

--- The term "depth of field" conditions added to the "object distance." this Part replaces GB/T 6159.5-2000 "Micrographics - Vocabulary Part V. image quality, readability and inspection." this part of the National Document Imaging Technology Standardization Technical Committee (SAC/TC86) and focal points.

Introduction

Entry in this section is based on the concept of system arrangement.

Each entry by entry number, the Chinese terms, the corresponding English words and definitions and other components, if necessary with drawings or injection.

In an entry in this section, the term priority cases by the use of bold. Defined or defined elsewhere in the standard priority surgery appear within comments Language is also used bold, and thereafter shall accompany the corresponding entry number (in brackets). If other parts of the term appears in the vocabulary of this series of standards Points, only stating the terms of the relevant part of the code "0 x" (such as the second part is the "02"). Number of entries in the index also uses this Injection method.

In terms of this section, parentheses "()" is used to comment or supplement; in the definition, square brackets "[]" is used to supplement.

Micrographics - Vocabulary Part 5. image quality, readability and inspection

1 Scope

This section defines the relationship between the image quality, readability and inspection terms, definitions and terms between.

This section applies to Micrographics and related fields.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 6159.1-2003 Micrographics - Vocabulary - Part 1. General terms (ISO 6196-1:1993, MOD) GB/T 6159.3-2003 Micrographics - Vocabulary - Part 3. film processing (ISO 6196-3:1997, MOD) GB/T 6159.4-2003 Micrographics - Vocabulary - Part 4. Materials and packaging (ISO 6196-4:1998, MOD) GB/T 6159.6-2003 Micrographics - Vocabulary - Part 6. Equipment (ISO 6196-6:1992, MOD) GB/T 6161-2008 Micrographics - ISO test chart No. 2 Resolving power is described and its application (ISO 3334:2006, IDT) GB/T 15237.1-2000 Terminology work - Vocabulary - Part 1 Theory and Applications (eqv ISO 1087-1:2000) GB/T 18405-2008 features Micrographics ISO character and ISO test chart No. 1 and its use (ISO 446.

2004, IDT)

3 Terms and Definitions

GB/T 6159.1-2003, GB/T 6159.3-2003, GB/T 6159.4-2003, GB/T 6159.6-2003, GB/T 15237.1-2000 and defined the following terms and definitions apply to this document.

Resolution (1) camera system (mechanical equipment, optical components, light-sensitive material and the processing conditions) recording capability of detail.

(2) the ability to display detail of the optical system.

Resolving power Numerical representation of the optical system or limit resolution camera system (3.1), with the value of the test pattern (3.15) is measured, and the size of the test chart Movies Like in 1mm distinguished lines of (3.20).

Note: due to the imperfections of the optical system, the entire image (01) Resolving power throughout the region (3.2) is not the same.

Acutance sharpness

Photographic image (01) performance objective value. In the image (01) adjacent to the degree of sudden changes in light and dark portions of the boundary representation.