



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

GB/T 17739.2-2021

**Microfilming of technical drawings and other drawing office
documents - Part 2: Quality criteria and control of 35 mm silver
gelatin microfilms**

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules of Standardization Documents"

Drafting.

This document is the second part of GB/T 17739 "Technical Drawings and Microfilming of Technical Documents". GB/T 17739 has been released

The following parts.

---Part 1. Operating procedures;

---Part 2. Quality guidelines and control of 35mm silver-gelatin microforms;

---Part 3. 35mm microfilm window card;

---Part 4. Shooting of special and oversized patterns;

---Part 5. Inspection procedures for diazo reproduction of microfilm images in the window card;

---Part 6. Quality criteria and control of 35mm microfilm magnification system.

This document replaces GB/T 17739.2-2006 "Technical drawings and microfilming of technical documents-Part 2. 35mm silver-gelatin type

Quality Guidelines and Inspection of Microforms, compared with GB/T 17739.2-2006, except for structural adjustments and editorial changes, the main technical changes as follows.

---Modified the normative reference documents (see Chapter 2, Chapter 2 of the 2006 edition);

--- Modify the value "1.21" in the third row of "Shrinkage" in Table 2 of Chapter 5 to "1.21.2" (see Table 2, 2006 version of Table 2);

---Deleted the positioning dimensions of the gray board and the scaled ruler in Figure 1 (see Figure 1, Figure 1 of the 2006 edition).

This document uses the redrafting law to amend and adopt ISO 3272-2:1994 "Technical Drawings and Other Drafting Office Documents Microfilm No. 2"

Part. Quality Guidelines and Control of 35mm Silver-Gelatin Microforms.

The technical differences between this document and ISO 3272-2:1994 and the reasons are as follows.

---Regarding normative reference documents, this document has made adjustments with technical differences to adapt to my country's technical conditions and adjustments.

The situation is collectively reflected in Chapter 2 "Normative Reference Documents", with specific adjustments as follows.

- * Replace ISO 6196-1:1993 (see Chapter 3) with GB/T 6159.1-2014 modified to adopt international standards;
- * Replace ISO 6196-2:1993 (see Chapter 3) with GB/T 6159.2-2011, which is modified to adopt international standards;
- * Replace ISO 6196-3:1983 (see Chapter 3) with GB/T 6159.3-2014 modified to adopt international standards;
- * Replace ISO 6196-4:1987 (see Chapter 3) with GB/T 6159.4-2014 modified to adopt international standards;
- * Replace ISO 6196-5:1987 (see Chapter 3) with GB/T 6159.5-2011, which is modified to adopt international standards;
- * Replace ISO 6196-6:1992 (see Chapter 3) with GB/T 6159.6-2003, which is modified to adopt international standards;
- * Replace ISO 3334:1989 with GB/T 6161-2008 equivalent to the international standard (see Chapter 5 and Appendix B);
- * Replace ISO 5-2:1991 with GB/T 11500-2008 equivalent to the international standard (see 4.8 and A.2);
- * Replace ISO 5-3:1984 (see 4.8 and A.2) with GB/T 11501-2008 equivalent to the international standard;
- * Replace ISO 446:1991 with GB/T 18405-2008 which is equivalent to the international standard (see Chapter 5 and Appendix B);
- * Deleted ISO 3272-1:1983, ISO 3272-3:1975, ISO 3272-4:1994, ISO 4330:1987, ISO 5466.

1992, ISO 10602.1993;

* Added reference to GB/T 6847-2012 (see 4.5);

* Added reference to GB/T 17293-2008 (see 6.1.1);

* Added reference to ISO 18901.2010 (see 4.3);

* Added reference to ISO 18911.2010 (see 4.6).

---Revised the minimum density requirements for the negative images of the first generation, the second generation and the issued microform (see 4.7);

---Modified the density requirements of the base and fog (see 4.8);

---Modified the arrangement order of the chapters of the test target, edited and set according to the theory and operation process of shooting the test target

The level and number of articles have been added to facilitate understanding and practice (see Chapter 6);

---Modified part of the content about the test target board and its arrangement to meet the actual situation in my country (see Chapter 6);

---Modified the reflectance value of the gray board to conform to our country's operating practice (see Figure 1).

Introduction

Various institutions should exchange technical drawings and technical documents smoothly, and there should be no ambiguity when using them.

Microfilming technology aims to make technical drawings and technical documents convenient for measurement, transmission, processing and storage. Microforms should meet size and quality

In order to make reliable reproduction. If you prepare the original in strict accordance with the size of the microform and the selected shrinkage ratio, it can accommodate

It can easily meet the quality requirements of the microform itself.

GB/T 17739 is composed of six parts.

---Part 1. Operating procedures. The purpose is to establish the technical drawings and other such as architectural design drawings on 35mm non-porous film.

The reduction ratio, magnification ratio, enlargement size of other technical documents and the resulting image size and shooting procedures.

---Part 2. Quality guidelines and control of 35mm silver-gelatin microforms. The purpose is to establish the use of 35mm silver-gelatin black

The quality requirements and control methods of white microfilm shooting technical patterns and technical documents made into microforms.

---Part 3.35mm microfilm window card. The purpose is to establish the technical characteristics of the data processing type prescribed size creation card.

---Part 4. Shooting of special and oversized patterns. The purpose is to establish the shooting requirements for special and oversized patterns.

---Part 5. Inspection procedure for diazo reproduction of microfilm in the window card. The purpose is to establish and verify the copy of A-level diazo window card

Requirements for the use of test targets for machine performance and quality.

---Part 6. Quality criteria and control of 35mm microfilm magnification system. The purpose is to establish a microfilm magnification system and

Minimum readability requirements for enlarged copies and inspection methods for enlarged quality.

Microfilming of technical drawings and technical documents

Part 2. 35mm silver-gelatin microform

Quality guidelines and control

1 Scope

This document specifies the quality requirements for using 35mm silver-gelatin black and white microfilm to photograph technical patterns and technical documents to make microforms

And control methods.

This document is applicable to the first and second generations of various technical drawings and technical documents, and silver-gelatin microforms for distribution.

2 Normative references

The contents of the following documents constitute the indispensable clauses of this document through normative references in the text. Among them, dated quotations

Only the version corresponding to that date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to

This document.

GB/T 6159.1-2014 Technical vocabulary of microfilming Part 1. General terms (ISO 6196-1.1993, MOD)