

ICS 01.140.20
CCS A14



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

GB/T 42468.3-2023

**Specifications for rescue and restoration of paper archives -
Part 3: Quality requirements for restoration**

纸质档案抢救与修复规范 第3部分：修复质量要求

Issued on: March 17, 2023

Implemented on: October 1, 2023

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

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Foreword

This document was issued on 17 March 2023 by the State Administration for Market Regulation; Standardization Administration of the PRC and takes effect on 1 October 2023.

It is a GB/T standard: recommended rather than compulsory, but it is the text a Chinese reviewer applies when assessing a submission.

It is classified under ICS 01.140.20, Chinese classification A14.

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

This document is the third part of GB/T (Z) 42468 "Paper Archives Rescue and Restoration Specification". GB/T (Z) 42468 has been issued

The following sections.

- Part 1. Classification of damage levels;
- Part 2. Investigation of archives preservation status;
- Part 3. Repair quality requirements;
- Part 4. Repair operation guide.

Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying patents.

This document is proposed and managed by the State Archives Bureau.

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Introduction

The paper archives rescue and restoration specification is to improve the restoration level of paper archives, and it is necessary to concentrate efforts to rescue and repair damaged or endangered paper archives.

Archives are important. GB/T (Z) 42468 "Paper Archives Rescue and Restoration Specification" aims to guide the science of paper archives rescue and restoration

Management is composed of 4 parts.

--- Part 1. Classification of damage levels. The purpose is to classify and grade the damaged paper archives, which can be used for formulating repair protection plan for reference.

--- Part 2. Investigation of archives preservation status. The purpose is to comprehensively understand and grasp the status quo, degree of damage, and

Library conditions and management.

--- Part 3. Repair quality requirements. The purpose is to establish quality standards for the restoration of paper archives and avoid damage to paper archives during the restoration process.

cause secondary damage.

--- Part 4. Repair operation guide. The purpose is to standardize the process and operation of paper archives restoration and ensure the quality of paper archives restoration.

Specifications for rescue and restoration of paper archives

Part 3. Repair Quality Requirements

1 Scope

GB/T 42468.3-2023 is the third part of the GB/T 42468 series and states the quality that repair work on paper archives has to reach. A single clause carries the requirements, taken operation by operation: deacidification, decontamination, the reinforcement and recovery of

handwriting, framing, debonding, trimming, cutting, and binding. Deacidification is judged by the state of the paper afterwards, neutral or slightly alkaline with a pH between 7.0 and 8.5, because acid left in the sheet keeps breaking it down after the file goes back on the shelf, while driving the paper too far alkaline attacks it from the other side. The rest of the clause works the same way, fixing what the finished repair has to be rather than the technique used to get there, which matters because the work is close to irreversible: a sheet trimmed too far loses margin notes and seal impressions that carry part of its evidential value, and an adhesive that will not release again locks the document for whoever has to treat it next. Terms build on GB/T 21712, GB/T 42468.1, DA/T 25, WH/T 22 and ISO/TS 18344. Written for archives at every level and for the conservation workshops they contract.

This document specifies the quality requirements for restoration of paper archives.

This document is applicable to the quality control of the restoration of paper archives by various archives at all levels and other paper archive preservation institutions.

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text. Among them, dated references

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

this document.

GB/T 21712 Technical Specifications and Quality Requirements for Restoration of Ancient Books

GB/T 42468.1 Paper archives rescue and repair specification Part 1. Classification of damage levels

DA/T 25 Technical Specifications for Archival Finishing

WH/T 22 Grading Standard for Damage of Ancient Books and Special Collections

3 Terms and Definitions

GB/T 21712, GB/T 42468.1, DA/T 25, WH/T 22, ISO /T S18344 and the following terms and definitions apply

used in this document.

3.1

repair restoration

For damaged or aging archives, techniques such as repairing, decontamination, deacidification, handwriting reinforcement, and restoration are adopted to restore the original appearance as much as possible and present information

Work.

4 Restoration Quality Requirements

4.1 Deacidification

Through the principle of acid-base neutralization, the acidic substances in the paper are removed. The main quality requirements for deacidification are as follows.

- a) The pH of the paper is neutral or slightly alkaline ($7.0 \leq \text{pH} \leq 8.5$);
- b) It has basically no effect on the performance and life of archival paper;
- c) There is no blurring or diffusion of handwriting;
- d) Alkali reserve of paper after deacidification treatment complies with the relevant provisions of ISO /T S18344;
- e) Deacidification is uniform.

4.2 Decontamination

Use physical and chemical methods to remove water stains, oil spots, ink spots, metal rust spots, wax spots, mildew spots, mud spots and other stains on the files. decontamination master