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

中华人民共和国国家标准

GB/T 2912.1-2009

Replace GB/T 2912.1-1998

Textiles—Determination of formaldehyde—

Part 1: Free and hydrolyzed formaldehyde (water extraction method)

纺织品 甲醛的测定

第 1 部分：游离和水解的甲醛（水萃取法）

(ISO 14184-1: 1998, MOD)

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Quarantine of the People's Republic of China**

Standardization Administration of the People's Republic of China

Contents

Foreword.....	1
1 Scope	1
2 Normative References	1
3 Principle.....	2
4 Reagents.....	2
5 Apparatus	3
6 Preparation of standard solution and calibration	3
7 Preparation and conditioning of test specimens	4
8 Procedure	5
9 Calculation and expression of the results	6
10 Test report.....	8
Annex A (Normative) Standardization of formaldehyde stock solution	9
Annex B (Normative) Standardization formaldehyde stock solution--- iodimetry....	11
Annex C (Informative) Information on accuracy of the method.....	14

Foreword

GB/T 2912 *Textiles—Determination of formaldehyde* consists of three parts:

- Part 1: Free and hydrolyzed formaldehyde (water extraction method);
- Part 2: Released formaldehyde (vapour absorption method);
- Part 3: High performance liquid chromatography method.

This Standard is Part 1 of GB/T 2912.

This Part is revision of ISO 14184-1: 1998 *Textiles — Determination of formaldehyde — Part 1: Free and hydrolyzed formaldehyde (water extraction method)*.

Comparison with ISO 14184-1: 1998, main differences of this Part are as follows:

- Replaced the International Standard by National Standard in normative reference;
- Deleted the Foreword of International Standard;
- Added detailed description on Principle;
- Added the requirements for calculation result rounded to whole number;
- Added the standardization of formaldehyde concentrate (Iodometry), as Annex B.

This Part will replace GB/T 2912.1-1998 *Textiles--Determination of formaldehyde--Part 1:Free and hydrolyzed formaldehyde (Water extraction method)*

Comparison with GB/T 2912.1-1998, main changes of this Part are as follows:

- Added the detected limit to scope;
- Added GB/T 11415 to normative references;
- Added the detail description to Principle;
- Changed the test piece from three to two and added the requirements for calculation result rounded to whole number;
- Added the “If the results less than 20 mg/kg, test report shown as “Not detected”” to Clause 9;

— Added the standardization of formaldehyde concentrate (Iodometry), as Annex B.

Annex A and Annex B of this Part are normative annex, Annex C is informative annex.

This Standard is proposed by China Textile Industry Association (CNTAC).

This Standard is under the jurisdiction of Subcommittee 1 of National Technical Committee 209 on Textiles of Standardization Administration of China.

Draft units of this Standard: South-China Testing Center of Textile Industry and National Quality Supervision and Inspection Centre of Textile Products.

Chief drafters of this Standard: Fan Ying, Zhu Ying, Wang Zhongzhao and Zhao Liyue.

This standard replaces the following historical editions issued:

— GB/T 2912-1982, GB 2912.1-1998.

Textiles—Determination of formaldehyde—

Part 1: Free and hydrolyzed formaldehyde (water extraction method)

This Part of GB/T 2912 calls for the use of substances and/or procedures that may be injurious to health if adequate precautions are not taken. It refers only to technical suitability and does not absolve the user from legal obligations relating to health and safety at any stage. It has been assumed in the drafting of this standard that the execution of its provisions is entrusted to appropriately qualified and experienced people.

1 Scope

This Part of GB/T 2912 specifies a method for determining the amount of free formaldehyde and formaldehyde extracted partly through hydrolysis by means of a water extraction method.

The Part can be applied to the testing of textile samples in any form.

The procedure is intended for use in the range of free and hydrolysed formaldehyde on the fabric between 20 mg/kg and 3500 mg/kg when determined by this method. The lower limit is 20 mg/kg. Below this limit the result is reported as ‘not detectable’

2 Normative References

The articles contained in the following documents have become this Part of GB/T 2912 when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 6529 Textiles—Standard atmospheres for conditioning and testing (GB/T 6529-2008, ISO 139: 2005, MOD)

GB/T 6682 Water for analytical laboratory use - Specification and test methods (GB/T 6682-2008, ISO 3696: 1987, MOD)

GB/T 11415 Laboratory sintered (fritted) filters-Porosity grading, classification and designation (GB/T 11415-1989, ISO 4793: 1980, NEQ)



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