

ICS 71.100.01; 87.060.10
CCS G 55



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

GB/T 5540-2017

Replacing GB/T 5540-2007

**Disperse dyes -- Determination of dispersibility -- Filter test of
double filter papers**

Issued on: May 31, 2017

Implemented on: December 1, 2017

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China, Standardization
Administration of the People's Republic of China**

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Foreword

This standard is drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces GB/T 5540-2007 "Determination of dispersing performance of disperse dyes". With GB/T 5540-

2007, the main technical changes in addition to editorial changes are as follows.

- the terms and definitions were deleted (see Chapter 3 of the.2007 edition);
- modified the expression of the principle (see Chapter 3, Chapter 4 of the.2007 edition);
- modified the operation and presentation of the preparation of disperse dyes (see 7.1,.2007 7.1);

--- Added filter paper validation contents (see Chapter 4 and Appendix C).

This standard uses the re-drafting method to modify ISO 105-Z04..1995 "Textiles Color fastness test Z04 part. Disperse dyes

Scattered ".

This standard has a greater structural adjustment compared to ISO 105-Z04..1995, Appendix A lists this standard with ISO 105-Z04.

1995 chapter number comparison list.

There are technical differences between this standard and ISO 105-Z04..1995, and the terms involved in these differences have passed through the margin

The vertical single line () of the position is marked, and Appendix B gives a list of the corresponding technical differences and their causes.

The following editorial changes are made to this standard.

- the standard name will be changed to "disperse dye dispersion performance determination of double filter paper filter";
- modified the scope of Chapter 1 statement;
- all comments on ISO 105-Z04..1995 were deleted;
- Added information on Appendix C filter paper validation.

This standard is proposed by the China Petroleum and Chemical Industry Association.

This standard is under the jurisdiction of the National Dye Standardization Technical Committee (SAC/TC134).

The drafting of this standard. Zhejiang Longsheng Group Co., Ltd., Shenyang Chemical Industry Research Institute Co., Ltd., the national dye quality supervision and inspection center.

1 Scope

This standard specifies the determination method for the dispersion of disperse dyes by double filter paper filtration.

This standard is applicable to the determination of the disperse properties of disperse dyes.

2 normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article

Pieces. For undated references, the latest edition (including all modifications) applies to this document.

Chemical analysis of filter paper GB/T 1914-2007

GB/T 2374-2017 General conditions for dye dyeing determination

GB/T 6682-2008 Analytical laboratory water specifications and test methods (ISO 3696. 1987, MOD)

3 principle

A certain amount of disperse dyes for pre-dispersed, heating, the specifications of the double filter paper filter. Filter the residue by filtering the time and dye

Evaluation of the dispersibility of the dye.

4 reagents and materials

Unless otherwise specified, use only reagents identified as analytical reagents and shall comply with the relevant provisions of Chapter 3 of GB/T 2374-2017;

Water for the three water specified in GB/T 6682-2008.

4.2 acetic acid solution. 100g/L.

4.3 filter with filter paper. $\phi 110$ mm medium speed filter paper, should be consistent with GB/T 1914-2007; $\phi 110$ mm fast filter paper should be consistent

GB/T 1914-2007. Refer to Appendix C for filter paper validation.

5 instruments and equipment

The equipment and equipment shall comply with the relevant provisions of Chapter 4 of GB/T 2374-2017.

5.1 Buchner funnel. diameter of 110mm Buchner funnel, there are 169 evenly distributed holes, aperture 1.3mm ~ 1.5mm.

5.4 vacuum pump. vacuum can reach 0.075MPa.

5.5 vacuum maintenance device. including vacuum table, vacuum control valve, vacuum hose and so on.