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

HJ 410-2017

Replacing HJ/T 410-2007

**Technical requirement for environmental labeling products.
Culture paper
(English Translation)**

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Foreword

In order to implement the "Law of the People's Republic of China on Environmental Protection" and reduce the use of cultural paper in the raw materials, production and use of the environment and people Health effects, protect the environment, the development of this standard.

This standard puts forward environmental protection requirements on the production process of cultural paper, toxic and harmful substances in products, and brightness.

This standard on the "technical requirements of environmental labeling products copy paper" (HJ/T 410-2007) was revised, the main changes are as follows.

- adjusted the standard name and scope of application;
- Adjust the requirements for pollutant emissions;
- Increase the requirements of cleaner production - Adjusted the requirements of raw material sources;
- Added raw material requirements to limit added substances;
- Adjust the requirements for water withdrawal in the production process;
- increased energy consumption in the production process, limiting the requirements of added substances;
- Increased requirements for restricted substances in products;
- Adjust the brightness of the product.

This standard is formulated by the Ministry of Environmental Protection Science and Technology Standards Division.

This standard is mainly drafted by. Environmental Protection Department of Environmental Development Center, the National Paper Quality Supervision and Inspection Center.

This standard Ministry of Environmental Protection approved on December 11, 2017.

This standard since March 1, 2018 into effect.

This standard is interpreted by the Ministry of Environmental Protection.

This standard replaces the standards previously issued as follows.

- HJ/T 410-2007.

Environmental labeling products technical requirements of cultural paper

1 Scope of application

This standard specifies the terms and definitions of cultural paper environmental labeling products, basic requirements, technical content and testing methods.

This standard applies to newsprint, offset printing paper, offset book paper, dictionary paper, copy paper, light printing paper, writing paper, coated Cloth art printing paper (coated paper), lightweight coated paper, thermal paper and non-carbon copy paper and other cultural paper.

2 Normative references

This standard references the following documents in the terms. For undated references, the effective version applies to this standard.

GB 31825 pulp and paper products per unit of energy consumption limits GB 31604.49 National Food Safety Standard Food Contact Materials and Products Determination of arsenic, cadmium, chromium, lead and arsenic, cadmium, chromium, Determination of nickel, lead, antimony and zinc migration GB/T 7974 Paper, cardboard and pulp Blu-ray diffuse reflection factor D65 Determination of brightness (diffuse vertical method, outdoor daylight conditions) Water quota GB/T 18916.5 Part 5. Paper products GB/T 22804 Determination of mercury content in pulp, paper and board GB/T 22904 Pulps, paper and cardboard Determination of total chlorine and organic chlorine GB/T 28951 China forest certification forest management GB/T 28952 China forest certification chain of custody GB/T 34455 paper, cardboard and pulp 2,2-bis (4-hydroxyphenyl) propane (bisphenol A) Determination of liquid chromatography Pulp and paper industry cleaner production evaluation index system (NDRC Ministry of Environmental Protection MIIT Announcement No. 9 of 2015)

3 Terms and definitions

The following terms and definitions apply to this standard.

3.1 Culture paper culture paper

Used for printing or writing and other cultural heritage, information dissemination for the purpose of various types of paper collectively.

4 Basic requirements

4.1

product quality should meet the national and industry standards.

4.2

Product manufacturing enterprises should comply with pollutant emissions of pollutants or national discharge requirements.

4.3

Production enterprises should reach the "Pulp and Paper Industry Cleaner Production Evaluation Index System" Level II level.

5.1 Raw material requirements

5.1.1

pulp or wood should be consistent with the requirements of GB/T 28951 and GB/T 28952, imported pulp or wood should be consistent with the national timber trade into Export related requirements.

5.1.2

Do not use chlorine and hypochlorite as bleach.

5.1.3

Do not use alkylphenol polyoxyethylene ethers (APEOs) and ethylenediaminetetraacetic acid (EDTA).

5.2 Requirements of the production process

5.2.1

Cultural paper products (including the use of self-pulping) is not greater than the amount of water GB/T 18916.5 in the new papermaking enterprises corresponding categories Required 50%, thermal paper and non-carbon copy paper and other cultural paper with reference to the requirements of printing and writing paper.

5.2.2

Cultural paper products (including the use of self-pulping) energy consumption should be consistent with GB 31825 in the corresponding categories of advanced value requirements of 90% Thermal paper and non-carbon copy paper and other cultural references with reference to coated printing paper class requirements.

5.3 Product requirements

5.3.1

Thermal paper does not contain bisphenol A.

5.3.2

Cultural paper products harmful substances should meet the limits of Table 1 requirements.

Table 1 cultural paper products harmful substances limit

Project limit

Organic chlorine, mg/kg $\leq$ 150 Total heavy metals (lead, mercury, chromium and cadmium), mg/kg $\leq$ 100 Lead, mg/kg $\leq$ 90 Mercury, mg/kg $\leq$ 60 Chromium, mg/kg $\leq$ 60 Cadmium, mg/kg $\leq$ 75

5.3.3

Product D65 brightness limit shall comply with Table 2 requirements.

Table 2 cultural paper products D65 brightness limit

Category D65 Brightness,% $\leq$ General Product Paper for groups 0-17 years old Newsprint 53.0 -Copy paper 90.0 -Offset printing paper 90.0 85.0 Offset printing paper 85.0 80.0 Lightweight printing paper 85.0 80.0 Dictionary paper 85.0 80.0 Writing paper 82.0 80.0 Coated art printing paper (coated paper) 93.0 90.0 Lightweight coated paper 90.0 88.0 Thermal paper 90.0 -Carbonless 90.0 -Other paper 80.0 -

6 Test methods

6.1

Technical content 5.3.1 The detection of bisphenol A in accordance with GB/T 34455 provisions of the method.

6.2

Technical Content 5.3.2 Determination of organic chlorine in accordance with GB/T 22904-2008 prescribed method.