

ICS 87.080
CCS A 17

HJ

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

HJ 570-2010

**Technical requirement for enviromental labeling products. Toner
cartridge**

环境标志产品技术要求 鼓粉盒

(English Translation)

Issued on: May 4, 2010

Implemented on: July 1, 2010

Issued by: Ministry of Ecology and Environment

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Foreword

To implement the "Environmental Protection Law of the People's Republic of China" and the "Circular Economy Promotion Law of the People's Republic of China", reduce the production of toner cartridges, this standard is formulated for the impact on human health and the environment during use and disposal, and the promotion of the use of environmentally friendly products.

This standard sets forth requirements for toxic and hazardous substances in the toner cartridge and environmental design, recycling and reuse, and public information.

This standard refers to the "Environmental Mark Type No.132" of the Environmental Labeling Agency of Japan Environmental Standards.

Formulated.

This standard applies to China Environmental Labeling Product Certification.

This standard was formulated by the Science and Technology Standards Department of the Ministry of Environmental Protection.

This standard is mainly drafted by. Environmental Protection Center of the Ministry of Environmental Protection, National Office Equipment and Consumables Quality Supervision and Inspection Center, Canon (?? China) Co., Ltd., China Hewlett-Packard Co., Ltd., Lexmark International Technology Co., Ltd., Ricoh Co., Ltd., Zhuhai Tianwei Pegasus Printing Supplies Co., Ltd., Zhuhai Nasida Enterprise Management Co., Ltd., Brother (China) Commercial Co., Ltd., Epson (China) Co., Ltd.

Division, Fuji Xerox (China) Co., Ltd., Ri Chong Commercial (Beijing) Co., Ltd., Konica Minolta Business Technology (Wuxi) Co., Ltd.

Division, Sharp Office Equipment (Changshu) Co., Ltd.

This standard was approved by the Ministry of Environmental Protection on May 4, 2010.

This standard has been implemented since July 1, 2010.

This standard is explained by the Ministry of Environmental Protection.

Environmental labeling product technical requirements toner cartridge

1 Scope of application

This standard specifies the terms and definitions, basic requirements, technical contents and inspection methods of the toner cartridge environmental labeling products.

This standard applies to drums used in electronic imaging printing equipment, newly manufactured by new parts, or new parts and reusable parts.

Powder box.

This standard does not apply to printing media with a media size specification of A2 (594 mm x 420 mm) or larger (including A2) and the print speed is greater than 70 (pages/min) for the toner cartridge used by the printing device.

2 Normative references

The contents of this standard refer to the terms in the following documents. For undated references, the valid version applies to this standard.

GB 18455 packaging recycling mark GB/T 16288 logo for plastic products GB/T 16483 chemical safety data sheet content and project sequence GB/T 20861-2007 Waste product recycling terminology HJ/T 424-2008 Environmental Labeling Products Technical Requirements Digital Multifunction Copying Equipment SJ/T 11363 Limitation requirements for toxic and hazardous substances in electronic information products

3 Terms and definitions

The following terms and definitions apply to this standard.

Toner cartridge

Used in electronic imaging printers, copiers, fax machines, and all-in-ones, from toner cartridges filled with toner or added A product consisting of a photoconductor drum and a developing unit.

Use reuse again

The waste product or its components, continue to be used or cleaned, repaired and continue to be used for the original purpose. (GB/T 20861-2007) 3.3 Recycling Disposal of waste products to enable them to be reused as raw materials, but does not include the recovery and reuse of energy.

(GB/T 20861-2007)

Recoverability rate

The sum of the quality of the new product that can be recycled (including the reused portion, the recycled portion, and the energy recovery portion) the percentage of product quality. (GB/T 20861-2007)

5.4 Hazardous substance discharge requirements

The hazardous substances emitted by the product during its working condition shall comply with the requirements of Table 1.

Table 1 Hazardous Substance Emission Limit Unit. mg/h

Project color monochrome Total Volatile Organic Compounds (TVOC) ≤ 18 ≤ 10 Styrene ≤ 1.8 ≤ 1.0 Dust ≤ 4.0 ≤ 4.0 Note. The model used for the test should be consistent with the applicable model marked on the product.

5.5 Recycling and disposal

5.5.1

The enterprise shall establish a product recycling system for recycling the products it produces and clearly inform the user of the recycling route.

5.5.2

The enterprise shall establish treatment and disposal measures for the recovered products to ensure that the recycled products are reused or recycled to the utmost extent.

5.6 Packaging materials

5.6.1

The total amount of lead (Pb), mercury (Hg), cadmium (Cd) and hexavalent chromium (Cr6) shall not exceed 100 mg/kg.

5.6.2

CFCs and hydrochlorofluorocarbons (HCFCs) should not be used as blowing agents.

5.6.3

The marking on the plastic packaging material shall comply with the requirements of GB/T 16288.

5.7 Production process requirements

CFCs, carbon tetrachloride (CCl₄), 1,1,1-trichloroethane (C₂H₃Cl₃) and hydrogen should not be used in the production process.

CFCs (HCFCs) act as detergents.

5.8 Public Information Requirements

The following information should be included in the product description.

- (1) the name of the product;
- (2) company name (or company product brand name);
- (3) Contact information;
- (4) Information related to product recycling;
- (5) Product use methods, recommendations for disposal of products and residual toner therein;
- (6) The product cannot be forcibly opened, and should prevent inhalation and contact with the skin due to leakage of toner due to improper operation, and when How to deal with accidents when inhalation and skin contact with toner;
- (7) Store the product away from children.

6 Test methods

6.1

The technical content of 5.5 is tested according to the method specified in HJ/T 424-2008. For color products, the test results are lower than the monochrome production.

The indicator of the product can no longer be tested in monochrome.

6.2

Other requirements in the technical content shall be verified by means of document review combined with on-site inspection, and relevant certification materials shall be issued by the enterprise.

And statement, fill in Appendix B and Appendix C as required.

Appendix A

(normative appendix) Carcinogenic aromatic amine Chinese name English name CS
registration number 4-aminobiphenyl 4-Aminodiphenyl 92-67-1 Benzdine Benzdine
92-87-5 4-Chloro-o-toluidine 4-Chloro-o-Toluidine 95-69-2 2-naphthylamine
2-Naphthylamine 91-59-8 O-Amino-azotoluene o-Amino-azotoluene 97-56-3