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

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

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7 Lead (Pb) is used in high temperature solders and its content (mass fraction) $\geq 85\%$

9 Lead (Pb) is used in the internal bonding solder of integrated circuit flip chip packages

Foreword

To implement the Environmental Protection Law of the People's Republic of China, reduce the impact of telephone calls on the environment and human health, effectively use and conserve resources, Energy, develop this standard.

This standard measures the leakage current of wired telephones, the average efficiency of external power adapters, electromagnetic radiation of mobile phones, and power supply chargers.

Average efficiency and the limits of toxic and hazardous substances in the phone, design, production process, packaging materials, recycling and public information the request.

This standard is the first release.

Appendix A and Appendix B of this standard are normative appendices.

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. China-Japan Friendship Environmental Protection Center, China Taier Laboratory.

This standard was approved by the Ministry of Environmental Protection on March 2, 2011.

This standard has been implemented since April 1, 2011.

This standard is explained by the Ministry of Environmental Protection.

Environmental Labeling Product Technical Requirements Telephone

1 Scope of application

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

This standard applies to telephones, including wireline and mobile phones.

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/T 18455 packaging recycling mark GB/T 15279 automatic telephone technical conditions GB/T 16288 logo for plastic products GB/Z 20288-2006 General requirements for the separation of test samples for hazardous substances in electrical and electronic products SJ/T 11365-2006 Methods for the detection of toxic and hazardous substances in electronic information products SN/T 1877.2-2007 Method for determination of polycyclic aromatic hydrocarbons in plastics and their products YD/T 1591 mobile communication terminal power adapter and charging/data interface technical requirements and test methods YD/T 1644.1-2007 Electromagnetic irradiation of human body by wireless communication equipment for hand-held and body wear--human body model, instrument and the first part of the procedure. SAR evaluation procedures for handheld wireless communication devices used near the ear (frequency range 300 MHz to 3 GHz) YD/T 1760.1 Digital mobile terminal peripheral interface data exchange Part 1. Data format technical requirements YD/T 1760.2 Digital mobile terminal peripheral interface data exchange Part 2. Data exchange file format technical requirements YD/T 1885 mobile communication handset wired headset interface technical requirements and test methods

3 Terms and definitions

The following terms and definitions apply to this standard.

Phone phone

Fixed telephone terminals, cordless telephone terminals and mobile connected to public communication networks (including fixed communication networks and wireless communication networks) User terminal products.

Wired telephone wirephone it is connected to a fixed telephone terminal and a cordless telephone terminal product in a public fixed communication network.

Mobile phone

Connected to a mobile user terminal product within a public wireless communication network.

4 Basic requirements

4.1

Product quality and safety performance should meet the requirements of relevant standards.

4.2

Pollutant emissions from product manufacturing enterprises shall comply with national or local standards for pollutant discharge.

4.3

Product manufacturers should strengthen clean production in the production process.

5.1 Wired telephone

5.1.1

Only wired telephones with telephone line power supply and LCD display shall have leakage current in the on-hook state in accordance with GB/T 15279.

Requirements; other wired telephones that are only powered by telephone lines should have a leakage current of no more than 20 μ A in the on-hook state.

5.1.2

For wired telephones powered by an external power supply, the actual average efficiency of the external power adapter shall comply with the requirements of YD/T 1591.

5.2 Mobile Phone

5.2.1

The electromagnetic radiation specific absorption rate (SAR) value of mobile phones should be no more than 0.8 W/kg.

5.2.2

Mobile phone power charger and charging/data interface shall comply with YD/T 1591 requirements.

5.2.3

Mobile phone wired headset interface shall comply with YD/T 1885 requirements.

5.2.4

The data format of the mobile phone software shall comply with the requirements of YD/T 1760.1, and the data exchange file format shall conform to YD/T 1760.2.

Claim.

5.3 Product requirements

5.3.1

The limit of toxic and hazardous substances in homogeneous materials in products shall comply with the requirements of Table 1.

Table 1 Limits of toxic and hazardous substances in homogeneous materials in products 1

Project limit (quality score) Lead (Pb) $\leq 0.1\%$ Mercury (Hg) $\leq 0.1\%$ Cadmium (Cd) $\leq 0.01\%$ Hexavalent chromium (Cr6) $\leq 0.1\%$ Polybrominated biphenyls (PBBs) $\leq 0.1\%$ Polybrominated diphenyl ethers (PBDEs) $\leq 0.1\%$

Note 1: Exemptions can be waived for exceptions. See Table 2 for exceptions.

Table 2 Exceptional Limits for Toxic and Hazardous Substances in Homogeneous Materials in Products

Serial number content

- 1 Lead (Pb) is applied to the glass of electronic components
- 2 Lead (Pb) and cadmium (Cd) are used in optical glass and filter glass
- 3 Lead (Pb) is used in ceramics of electronic ceramic parts
- 4 Lead (Pb) is used as an alloying component in steel alloys and its content (mass fraction) $\leq 0.35\%$
- 5 Lead (Pb) is used as an alloying component in aluminum alloys and its content (mass fraction) $\leq 0.4\%$
- 6 Lead (Pb) is used as an alloying component in copper alloys and its content (mass fraction) $\leq 4\%$

7 Lead (Pb) is used in high temperature solders and its content (mass fraction) $\geq 85\%$

8 Lead (Pb) is used in the solder used for microprocessor pins and package connections, and its content (mass fraction) is 80% to 85%.