



GB XXXXX-XXXX

Limits of Certain Heavy Metal in Printing Inks

油墨中部分重金属的限量

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National Standard of the People's Republic of China

GB XXXXX-XXXX

Limits of certain heavy metal in printing ink
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Issued on XXXX-XX-XX

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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**

Foreword

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

All technical contents of this standard are mandatory.

This standard was proposed by and is under the jurisdiction of the Ministry of Industry and Information Technology of the People's Republic of China.

Drafting organizations of this standard: China National Center for Quality Supervision and Inspection of Printing and Decorating Products, Tianjin Toyo Ink Co., Ltd., Hangzhou Toka Ink Co., Ltd., Shanghai Peony Printing Ink Co., Ltd., Beijing Youwei Technology Co., Ltd., Shanghai Ink Silian Chemical Co., Ltd., and Sun Yat-sen University.

The main drafters of this standard: Chen Xiaorui, Zhang Liming, Zhou Mei, Gong Zhangshui, Chen Aijun, Sun Shixiang, You Mingxin and Wang Xiaomei.

Limits of certain heavy metal in printing ink

1 Scope

This standard specifies the maximum limit requirements of lead, cadmium, mercury, hexavalent chromium, and soluble heavy metals (soluble antimony, soluble arsenic, soluble barium, soluble cadmium, soluble chromium, soluble lead, soluble mercury, soluble selenium) in printing inks, sample preparation and determination methods.

This standard applies to printing ink products.

2 Normative References

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 6682 Water for analytical laboratory use - Specification and test methods

3 General

This standard is formulated as the safety general technical requirements for the production and use of printing inks.

This standard is designed, to the maximum extent possible, to protect human health and reduce pollution and damage to the environment, but not to harm the safety or health of users or third parties.

4 Requirements

The maximum limit of heavy metals in printing ink shall meet the requirements of Table 1.

Table 1 Maximum limit of heavy metals in printing ink

Unit: mg/kg

Name of harmful element	Requirement
Lead	Total content≤100
Cadmium	
Mercury	
Hexavalent chromium	
Soluble antimony (Sb)	≤60
Soluble arsenic (As)	≤25
Soluble barium (Ba)	≤1000
Soluble cadmium (Cd)	≤75
Soluble chromium (Cr)	≤60
Soluble lead (Pb)	≤90
Soluble mercury (Hg)	≤60
Soluble selenium (Se)	≤500



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