

ICS 71.100.99
CCS G85

SN

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

SN/T 3795-2014

**Screening of cobalt dichloride in the silicone and other polymer
- Wavelength dispersive X-ray fluorescence spectrometric
method**

(English Translation)

Issued on: January 13, 2014

Implemented on: August 1, 2014

Issued by: General Administration of Customs

Table of Contents

- Foreword
- 1 Scope
- 2 Normative references
- 3 Method summary
- 4 Reagents and materials

Foreword

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

This standard is proposed and managed by the National Certification and Accreditation Administration Committee.

This standard was drafted. People's Republic of China Ningbo Exit Inspection and Quarantine.

1 Scope

This standard specifies the use of the wavelength dispersive X-ray fluorescence spectrometer screening silicone and polyethylene, polypropylene, polystyrene cobalt dichloride the method of content.

This standard applies to silica and polyethylene, polypropylene, polystyrene determination of cobalt and chlorine content, chlorine content of cobalt and low detection limit 10mg/kg.

This standard applies to analyte concentration range as shown in Table 1.

Table 1 different base materials cobalt and chlorine quantitative screening measurement range milligrams per kilogram

Other elements of silicone polymer Co $P \leq (400-3\sigma)$

$P \leq (400-3\sigma)$ Cl $P \leq (490-3\sigma)$ $P \leq (490-3\sigma)$

Note 1: X represents the measured value measured elements, P is qualified.

Note 2: 3σ represent precision.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references,

the latest edition (including any amendments) applies to this document.

Laboratory use specifications and test methods GB/T 6682-2008 Analysis GB/T 8170
rounding off rules and limit the digital representation and judgment GB/T 16597
metallurgical product analysis X-ray Fluorescence Spectrometry General

3 Method summary

Using wavelength dispersive X-ray fluorescence spectrometry test sample and total
chlorine content of total cobalt, dichloride content filter.

4 Reagents and materials

Unless otherwise specified, the reagents used were of analytical grade and should be
above water for the two water GB/T 6682-2008 requirements.

4.1

Cobalt dichloride. 99.0% purity.

4.2

colorless silicone. the element cobalt and chlorine less than 0.5mg/kg.

4.3

polyethylene particles. the elements chlorine and cobalt less than 0.5mg/kg.

Microcrystalline cellulose 4.4. the elements cobalt and chlorine less than 0.5mg/kg.