

ICS 13.340.30
CCS W 55

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

SY/T 0520-2008

**Viscosity determination of crude petroleum. Equilibrium
method by rotational viscometer
(English Translation)**

Issued on: December 1, 2015

Implemented on: March 1, 2016

Issued by: China Textile Commerce Association

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Foreword

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

This standard was proposed by China Textile Commerce Association.

This standard shall be under the jurisdiction of the China Textile Commerce Association Safety & Health Protective Products Committee.

The main drafting organizations of this standard. Chinese Academy of Sciences Urban Environment Study Institute, CAS-Best (Xiamen) Environmental Technology Co., Ltd., Jiande Chaomei Daily Chemicals Co., Ltd, Zhejiang State Inspection Technology (Jiangsu) Co., Ltd. Shanghai Gangkai Purifying Products Co., Ltd., Jingzhou Strong Science and Technology Development Co., Ltd, Guangzhou Powecom Safety Goods Manufacturing Co., Ltd, Guangzhou City Guanhua Labor Protection Products Co., Ltd., Xiamen High-tech Anti-static Equipment Co., Ltd., Hubei Xianwanli Protective Products Co., Ltd.

1 Scope

This standard specifies the terms and definitions, classification, grading and marking, technical requirements, testing methods, product descriptions and

packaging of PM2.5 protective masks.

This standard applies to the mask used in daily life by the public to prevent PM2.5 inhalation.

This standard neither apply to the masks used for protection of harmful gases and steam inhalation, nor apply to the masks used in anoxic environment, escape, fire, medical and other occupational purposes.

2 Normative references

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this Standard.

GBZ 1-2010 Hygienic standards for the design of industrial enterprises

GB 2626-2006 Respiratory protective equipment - Non-powered air-purifying particle respirator

GB/T 2912.1 Textiles - Determination of formaldehyde - Part 1.Free and hydrolyzed formaldehyde (water extraction method)

GB 3095-2012 Ambient air quality standard

GB/T 5703 Anthropometric basic items for technical design

GB/T 7573 Textiles - Determination of pH of aqueous extract

3 Terms and definitions

The following terms and definitions apply to this document.

3.1

Mist

It refers to the tiny droplets suspended in the air.

[GB/T 18664-2002, definition 3.1.18]

3.2

Haze

It refers to a kind of weather formed by the smoke suspended in the air.

3.3

Aerodynamic diameter

It refers to the diameter of the sphere of the unit density ($\rho_0 = 1 \text{ g/cm}^3$) reaching to the final settlement velocity same as the actual particle when it is in low Reynolds movement in the static air.

[HJ 653-2013, definition 3.1]

3.4

PM_{2.5}

It refers to the particle in the ambient air for which the aerodynamic equivalent diameter is less than or equal to $2.5 \mu\text{m}$, AND it is also known as fine particle.

[GB 3095-2012, definition 3.4]

4.1 Classification

Based on structures, the products are divided into disposable masks and replaceable masks. Based on size, the products are divided into large (L), medium (M) and small (S).

4.2 Grading

Based on the filtration efficiency, the products are divided into. grade 1 F95 $\geq$ 95%; grade 2 F90 $\geq$ 90%.

5.1.1 Materials

The material shall comply with the following requirements.

5.1.2 Structural design

Structural design shall comply with the following requirements.

5.1.3 Place of production

The hygiene of the production place of mask shall comply with the Chapter 6 basic hygienic requirements for the workplace of GBZ 1-2010 Hygienic standards for the design of industrial enterprises.

5.2 Filter efficiency

The filter efficiency will be tested in accordance with the testing methods as specified in 6.7 of this standard; AND the filter efficiency of each sample shall always comply with the requirements of Table 2.

5.4 Respiratory resistance

USE the test method as specified in 6.9 of this standard to conduct testing, AND the results shall comply with the requirements of Table 4.

5.5 Connection force between mask lace and main part

USE the method as specified in 6.10 of this standard to conduct test; when the mask lace is withstanding 10N axial tensile force for 10s, it shall not be slipping or fracture.

6.1 Appearance inspection

Based on each technical requirement, before conducting the lab performance test, it shall conduct visual appearance inspection against the sample. As for the disposable mask and the replaceable mask, it respectively requires inspecting 2 samples which are respectively subjected to temperature and humidity pre-treatment, wherein.

6.2 Temperature and humidity pretreatment

FOLLOW the provisions of 6.2.1 in GB 2626-2006.

6.3 Formaldehyde

FOLLOW the provisions of GB/T 2912.1. The samples were not pretreated AND the samples were sealed before storage.

6.6 Microbiological indicators

FOLLOW the provisions of Appendix B of GB 15979; before test, the sample shall be sealed.