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Foreword

This Standard was proposed by China Petroleum and Chemical Industry Federation.

This Standard shall be under the jurisdiction of National Standardization Technical Committees (SAC/TC 5).

The drafting organizations of this Standard. CNOOC Changzhou coating Chemical Research Institute, Shanghai Fu-chen Chemical Co., Ltd., Nanjing Yangtze River Paint Co., Ltd., Zhejiang GTC Paint Industry Group Co., Ltd., Foshan Maydos Chemical Co., Ltd., China Paint (Shenzhen) Co., Ltd., Jiangsu Elephant East Asia Paint Co., Ltd., Guangzhou Pearl River Chemical Industry Group Co., Ltd., Shenzhen Song Hui Chemical Co., Ltd., and Sichuan Dangerous Chemicals Quality Supervision and Inspection Institute.

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Nitrocellulose coatings

1 Scope

This Standard specifies the classification, requirements, test methods, inspection rules and marks, package and storage of nitrocellulose coatings.

This Standard is applicable to modified coatings which take nitrocellulose as main film forming materials and are added with alkyd resin, modified rosin, and acrylic resin. The products mainly apply to metal, plastic, wood and other surface protection and decoration.

This Standard is not applicable to protection and decoration of wood product surface for interior decoration use (including factory coating).

2 Normative references

The following standards contain the provisions which, through reference in this Standard, constitute the provisions of this Standard. For dated references, the subsequent amendments (excluding corrections) or revisions do not apply to this Standard. However, the parties who enter into agreement based on this Standard are encouraged to investigate whether the latest versions of these documents are applicable. For undated reference documents, the latest versions apply to this Standard.

GB/T 1722-1992 Color of varnishes, boiled oils and thinners

GB/T 1725-2007 Paints varnishes and plastics - Determination of non-volatile-matter content (ISO 3251.2003, IDT)

GB/T 1726-1979 Methods of test for hiding power of paints

GB/T 1728-1979 Methods of test for drying time of coatings of paints and putties

GB/T 1735-2009 Paints and varnishes - Determination of heat resistance (ISO 3248.1998, Paints and varnishes - Determination of the effect of heat, MOD)

GB/T 1762-1980 Test for after-tack of paint films

GB/T 1766-2008 Paints and Varnishes - Rating Schemes of Degradation of

Coats

GB 1922-2006 Petroleum solvents for paints and cleaning

GB/T 3186 Paints varnishes and raw materials for paints and varnishes -
Sampling (GB/T 3186-2006, ISO 15528.2000, IDT)

GB/T 6682 Water for analytical laboratory use - Specification and test
methods (GB/T 6682-2008, ISO 3696.1987, MOD)

GB/T 6753.1-2007 Paints varnishes and printing inks - Determination of
fineness of grind (ISO 1524.2000, IDT)

GB/T 8170 Rules of rounding off for numerical values & expression and
judgement of limiting values

GB/T 9271-2008 Paints and varnishes standard panels for testing (ISO
1514.2004, MOD)

GB/T 9274-1988 Paints and varnishes - Determination of resistance to
liquids (eqv ISO 2812.1974)

GB/T 9278 (GB/T 9278-2008, ISO 3270.1984, Paints and varnishes and their
raw materials - Temperatures and humidities for conditioning and testing, IDT)

GB/T 9286-1998 Paints and varnishes; Determination of resistance to liquids
(eqv ISO 2409.1992)

GB/T 9750 Marks for package of coating products

GB/T 9754-2007 Paints and varnishes - Determination of specular gloss of
non-metallic paint films at 20° 60° and 85° (ISO 2813.1994, IDT)

GB/T 13452.2-2008 Paints and varnishes - Determination of film thickness
(ISO 2808.2007, IDT)

GB/T 13491 General rule for packing of coatings

JB/T 7499-2006 Coated abrasives - Waterproof abrasive paper

3 Product classification

Nitrocellulose coating is classified into nitrocellulose primer and nitrocellulose
finish paint. And nitrocellulose finish paint is classified into varnish and paint.

5.3.1 Substrate processing

Unless otherwise agreed, steel plates, tin plates and glass plates for test use shall comply with requirements in GB/T 9271-2008. Steel plate processing shall be conducted in accordance with the provisions in 3.5 of GB/T 9271-2008. Tin plate processing shall be conducted in accordance with the provisions in 4.3 of GB/T 9271-2008. Glass plate processing shall be conducted in accordance with the provisions in 7.2 of GB/T 9271-2008. Substrate material type and substrate processing method agreed shall be indicated in the inspection report.

5.3.2 Preparation of test sample

Unless otherwise agreed, sample preparation shall be based on Table 3 and determination of sample coating thickness shall be conducted according to the provisions in GB/T 13452.2. When it uses different method for coating preparation from the one stipulated in this Standard, it shall be indicated in the inspection report.

Table 3 Preparation of test sample

Inspection item	Substrate type
Substrate size	
mm	Coating requirements
Constructability	
Coating appearance	
Tin plate 200x100x(0.2~0.3)	
One layer of primer. (23±3) μm	
Two layers of varnish. (30±5) μm (time interval of each layer. 30 min)	
Two layers of paint. (35±5) μm (time interval of each layer. 30 min)	
Conduct the test for coating appearance	