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

JG/T 496-2016

Replacing JG/T 3045.1-1998

**Specification of franklinism powder spraying coating for
windows and doors of profiled aluminium alloy
(English Translation)**

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Foreword

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

This standard is JG/T 3045.1-1998 "aluminum alloy doors and windows profile electrostatic spraying powder coating technology," the amendment, in addition to editorial Modifications, the main technical changes of this standard and JG/T 3045.1-1998 are as follows.

- Added "terms and definitions" (see 3);
- Deleted the description of the basic requirements of aluminum alloy doors and windows profiles and profile surface preparation of the relevant provisions of the description (see 1998 edition 3.1.1 and 3.1.2);
- Remove the aluminum alloy door and window profiles after 24 hours of pre-treatment for powder electrostatic spraying the provisions of the description (see 1998 edition 3.1.3);
- Removed the specified description of thermosetting pure polyester powder or acrylic powder coating with excellent weatherability (see 1998 Version 3.1.4);
- Added "General Requirements" (see 4.1);
- Added "gloss" and test methods (see 4.2.3 and 5.4);
- Added "wet adhesion" requirements and test methods (see 4.2.7 and 5.8);
- Increased "wear resistance" and test methods (see 4.2.8 and 5.9);
- Increased "scratch resistance" and test methods (see 4.2.9 and 5.10);
- Modify the test of wet heat resistance of the coating (see 4.2.10, 1998 version 4.8);
- Increase the "resistance to hydrochloric acid" and test methods (see 4.2.12 and 5.13);
- Increased "detergent resistance" and test methods (see 4.2.13 and 5.14);
- Modify the coating salt spray test time (see 4.2.15, 1998 version 4.10);
- Modify the coating weatherability test time (see 4.2.16, 1998 version 4.12);

- Added "sampling and sample preparation" requirements (see 5.1);
- In the "color and color difference" to increase the provisions of the instrument determination (see 5.3.2);
- Modify the type test batch and sampling rules (see 6.2.2, 1998 version 5.3);
- Modify the type test rules for the determination of the rules (see 6.2.4, 1998 version 5.4);
- Removed Chapter 6 "Marking, Packaging, Transport, Storage" and related provisions (see the 1998 edition of Chapter 6).

This standard proposed by the Ministry of Housing and Urban Standard and Design Institute.

This standard by the Housing and Urban-Rural Construction Products and Components Standardization Technical Committee.

This standard was drafted. Zhejiang Building Science Design Institute Co., Ltd., Zhejiang Yazha curtain wall Co., Ltd., Zhejiang Bo yuan Construction Unit Co., Ltd., Zhejiang Mingquan Industrial Coating Co., Ltd., Zhejiang Boao Aluminum Co., Ltd., China Construction Engineering Group Co., Ltd., Cixi Chengzheng Construction Engineering Testing Co., Ltd., Jiangyin Donghua Aluminum Technology Co., Ltd., Ningbo City, Purple Construction Engineering Co., Ltd. detection, Zhejiang Province Quality Testing Institute of Science and Technology, Zhejiang Province Construction Science and Technology Promotion Center, Zhejiang Sheng Industry Co., Ltd., Zhejiang Yun Construction Co., Ltd., Zhejiang Lucky Cheung Aluminum Co., Ltd.

1 Scope

This standard specifies the terms and definitions, requirements, test methods and inspection rules of aluminum alloy door and window material powder electrostatic spraying coating.

This standard applies to aluminum alloy window profiles (hereinafter referred to as profile) with thermosetting powder electrostatic spray coating.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 1732 film impact resistance assay GB/T 1740 Determination of film resistance to dampness GB/T 1766 Paints and varnishes coating aging rating method GB/T 1771 Paints and varnishes - Determination of resistance to neutral salt spray performance GB/T 1865-2009 paints and varnishes artificial weathering and artificial radiation exposure

filtered xenon arc radiation Aluminum alloy building profiles - Part 4. Powder coated profiles
GB/T 6682 analytical laboratory water specifications and test methods GB/T 8013.3-2007
Aluminum and aluminum alloy anodic oxide film and organic polymer film - Part 3. Organic
polymer spray coating Concrete admixtures GB/T 9271 standard paint and varnish test
panels GB/T 9275 Paints and varnishes - Buckholds indentation test GB/T 9279 Paints and
varnishes - Scratch test GB/T 9286 Paints and varnishes - Cross-hatch test GB/T 9754
Paints and varnishes - Determination of the specular gloss at 20 °, 60 ° and 85 ° of metallic
paint-free paint films GB/T 9761 Paints and varnishes visual colorimetric paint GB/T
11186.2 Method of measurement of paint film color - Part 2. Color measurement GB/T
11186.3 paint film color measurement methods Part III. color difference calculation GB/T
13452.2 Paints and varnishes - Determination of film thickness GB/T 17671 cement mortar
strength test method (ISO method) GB/T 23988 Determination of abrasion resistance of the
coating Sand method JC/T 481 building slaked lime JG J63 concrete water standards

3 Terms and definitions

The following terms and definitions apply to this document.