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

GB/T 38166-2019

**Production of specimens for testing enamels on sheet steel,
sheet aluminium and cast iron**

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Foreword

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

This standard uses the redrafting method to modify the use of ISO 28764.2015 "enamel and enamel steel enamel, aluminum enamel and cast iron ?

Porcelain sample preparation.

The technical differences between this standard and ISO 28764.2015 and their reasons are as follows.

---5.1.1 The shape and size requirements of the special sample are increased. "Other test methods are specified for the sample. Other sizes or

The shape of the model" to meet the shape and size requirements of the specific specifications specified in the specific inspection items in China's enamel field standards.

This standard has made the following editorial changes.

--- Modified the standard name;

--- Revised the note for 5.1.4 and removed several EU grade aluminum alloys as exemplified in ISO 28764.2015.

This standard is proposed and managed by the China Light Industry Association.

This standard was drafted. Donghua University, National Eyeglass Glass Enamel Product Quality Supervision and Inspection Center, Shanghai Glasses Glass Enamel Products

Quality supervision and inspection station.

1 Scope

This standard specifies the preparation method of the enamel template used for the test.

This standard applies to two different templates, including.

---Product model;

---Special model.

This standard applies to the preparation of steel plate enamel, aluminum enamel and cast iron enamel.

Note. When quantitatively determining the mass loss of enamel surface per unit area, only special samples can be used. The sample from the product will reduce the accuracy of the test method.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

ISO 2746 enamel products and enamel high voltage test
(Vitreous and porcelain enamels-High voltage test)

3 marked

Samples prepared in accordance with this standard shall have the following markings.

Sample. GB/T 38166- (substrate)

The steel plate substrate is labeled A, the cast iron substrate is labeled B, and the aluminum substrate is labeled C.

Example. A sample prepared from a steel substrate in accordance with this standard, marked as.

Sample. GB/T 38166-A

4.1 Product Model Requirements

The sample should be taken from products produced according to normal parameters and cannot be taken from reworked products.

4.2 Shape and size requirements

The sample shall be round or square and shall have a diameter or side length of 105 mm $\pm$ 5 mm.

The sample should be taken from the flat part of the enamel product (to meet the test requirements), and other test methods are specified for the sample. Other sizes can be used.

Inch or shape template. For aluminum enamel samples that are only tested for adhesion using ISO 13805, other shapes can be used.

4.3 Preparation

Before cutting the enamel product into a product sample, the front and back enamel enamel layers on the cutting line should be ground until the metal substrate is exposed. Fray off