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HG

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

HG/T 3105-2009

**Vitreous and porcelain enamels for sheet steel. Production of
specimens for testing**

钢板搪玻璃试件的制备

(English Translation)

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Foreword

This standard replaces HG/T 3105-1987 "Vitreous and porcelain enamels for sheet steel-Production of specimens for testing".

This standard refers to ISO 2723-1995 "Vitreous and porcelain enamels for sheet steel - Production of specimens for testing".

Compared with HG/T 3105-1987, the main changes of this standard are as follows:

- ADD the requirements for materials;
- ADD the requirements for the uniformity of vitreous and porcelain enamels;
- ADD the DC spark requirement.

This standard was proposed by China Petroleum and Chemical Industry Association.

This standard shall be under the jurisdiction of the National Standardization Technical Committee for Glass-lined Equipment.

Drafting organizations of this standard: Jiangyin Guipu Enamel Co., Ltd.

1 Scope

This standard specifies the preparation methods and requirements for sheet steel specimens, which are used to determine the physical and chemical properties of vitreous and porcelain enamels for sheet steel.

This standard applies to the preparation of vitreous and porcelain enamels for sheet steel.

2 Normative references

The provisions in following documents become the provisions of this Standard through reference in this Standard. For the dated references, the subsequent amendments (excluding corrections) or revisions do not apply to this Standard; however, parties who reach an agreement based on this Standard are encouraged to study if the latest versions of these documents are applicable. For undated references, the latest edition of the referenced document applies.

HG 2432 Quality standard of glass-lined equipment for industry

3.1 There are two types of test specimens: square plate test specimens and circular plate

test specimens.

3.2 Size of square plate test specimens is 80 mm x 80 mm; the thickness of the base

sheet steel is (5.5 ± 0.2) mm; the thickness of vitreous and porcelain enamel is (1.1 ± 0.1) mm.

3.3 The size of the circular flat test specimens is $\Phi(105 \pm 2)$ mm; the thickness of the

base sheet steel is 2 mm; the thickness of the vitreous and porcelain enamel is (0.8 ± 0.11) mm.

4.1 The steel used for the preparation of test specimens shall meet the requirements of

HG 2432. Meanwhile, it is consistent with the sheet steel used for manufacturing

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