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

SN/T 3130-2012

**Determination of resistance to alkalescence in vitreous and
porcelain enamels of cast iron**
(English Translation)

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Foreword

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

Please note that some of the content of this document may involve patents. Distribution of this document Institutions do not assume the responsibility to identify these patents.

This standard is proposed and managed by the National Certification and Accreditation Administration Committee.

This standard was drafted. People's Republic of China Hebei Entry-Ha three Xingtai Iron Limited.

1 Scope

This standard specifies the classification of cast iron enamel products alkali resistance test methods and their results.

This standard is applicable for use in contact with food burning enamel cast iron and alkali performance testing container.

This standard does not apply to cast iron enamel sanitary ware products, alkali resistance enamel cast iron products for the chemical industry and other special purpose Testing.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

Laboratory use specifications and test methods GB/T 6682 Analysis GB/T 12808
Laboratory glassware single marking pipette Principle 3 Enamel cast iron enamel main

ingredient is silicate. At room temperature, with part of the sample surface erosion lye, lye will enamel silicon ions dissolved in alkaline solution, so that the enamel surface state changes. The method is based on the enamel surface and can change the state of cleanliness of the erosion resistance be assessed.

4 Reagents and materials

Unless otherwise stated, test water should meet the two requirements of water GB/T 6682 regulations.

Sodium carbonate solution was 4.1, 5g/L.

4.2

neutral degreaser for cleaning degreasing sample.

4.3

Titanium dioxide, pigment grade.

5 Labware

5.1

straw, in line with GB/T 12808 requirements.

5.2

towels, white cotton or linen.

5.3

Quantitative filter paper, thin fast, pore size $80\mu\text{m} \sim 120\mu\text{m}$, diameter of about 30mm.

5.4

pencil hardness of HB.

6.1 Sampling

Should not receive any physical and chemical test, the sample should be at least three test specimens.