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

**GB/T 25025-2025**

Replacing GB 25025-2010

**Technical requirements for glass-lined equipment**

搪玻璃设备技术条件

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## Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document replaces GB 25025-2010 "Technical Specifications for Glass-lined Equipment". Compared with GB 25025-2010, except for structural adjustments and editing In addition to the changes in performance, the main technical changes are as follows.

a) The applicable range of design temperature has been changed (see Chapter 1, Chapter 1 of the 2010 edition);

b) Changed the terms "glass lining layer", "firing", "re-enamelling", "crack", "scratch, abrasion", "color difference point", "powder tumor", "repair", and "firing mark" and definitions, adding "local under-firing", "return to factory for re-enamelling", "line pattern", "stress line", "turtle back pattern", "orange peel-like bumps", "unevenness", "structure" The terms and definitions of "strongly corrosive medium" and "weakly corrosive medium" have

been revised (see Chapter 3, Chapter 3 of the 2010 edition);

c) The provisions on the classification and code of glass-lined equipment have been deleted (see Chapter 4 of the 2010 edition);

d) Added basic requirements (see Chapter 4);

e) The regulations on the design of glass-lined equipment and its components and accessories have been changed (see Chapter 5, Chapter 5 of the 2010 edition);

f) The provisions for glass-lined equipment and its components and accessories have been changed (see Chapter 6, Chapter 6 of the 2010 edition);

g) The provisions for the manufacture, inspection and acceptance of the metal substrate of glass-lined parts have been changed (see 7.1, Chapter 7 of the 2010 edition);

h) The requirements for the glass-lined process have been changed (see 7.2, Chapter 8 of the 2010 edition);

i) The quality requirements for finished glass-lined parts have been changed (see Chapter 8, Chapter 9 of the 2010 edition);

j) Modified the provisions on the inspection methods for glass-lined equipment, glass-lined components and pipe fittings (see Chapter 9, 2010 Edition). Chapter 10);

k) The provisions for assembly of glass-lined equipment have been deleted (see Chapter 11 of the 2010 edition);

l) Added the requirements for the nameplate installation position and height when the glass-lined equipment has an insulation layer (see 10.1);

m) Some contents have been added to the product manual (see 11.2);

n) Added requirements for glass-lined equipment to be returned to the factory for re-lining (see Chapter 13).

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document was proposed by the China Petroleum and Chemical Industry Federation.

This document is under the jurisdiction of the National Technical Committee for Standardization of Glass-lined Equipment (SAC/TC72).

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The previous versions of this document and the documents it replaces are as follows.

- First published in 2010 as GB 25025-2010;
- This is the first revision.

## 1 Scope

This document specifies the basic requirements, design and The design, materials, manufacturing, quality requirements and re-enamelling are described, and the corresponding inspection methods are described.

This document is applicable to glass-lined equipment for petrochemical production with a design temperature greater than or equal to -20°C and less than or equal to 200°C (including Including glass-lined parts of glass-lined equipment and glass-lined pipes and fittings).

## 2 Normative references

GB/T 7989

GB/T 7991.1

GB/T 7991.3

GB/T 7991.4

GB/T 7991.5

GB/T 7991.6

GB/T 7994.1

GB/T 7994.2

GB/T 8923.1

GB/T 9439

GB/T 12229-2005

### **3 Terms and definitions**

The following terms and definitions apply to this document.

#### **3.1 Glass-lined**

The glassy glaze sprayed on the metal substrate is compounded through multiple high-temperature firings to form a smooth, dense, and continuous glassy glaze on the metal substrate.