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

GB/T 10067.49-2014

**Basic specifications for electroheat installations-Part 49:
Natural convection pit resistance furnaces**

电热装置基本技术条件 第49部分：自然对流井式电阻炉

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Foreword

GB/T 10067 "Basic electric device technical conditions" existing 19 sections.

- Part 1. Common part;
- Part 2. Arc heating device;
- Part 3. induction electric device;
- Part 31. IF coreless induction furnace;
- Part 32. voltage-frequency multi-station frequency coreless induction furnace complete sets of equipment;
- Part 33. frequency coreless induction melting Tonglu;
- Part 4. Indirect resistance furnaces;
- Part 41. network with resistance heating unit;

- Part 42. Push resistance heating unit;
- Part 43. Forced convection Pit resistance furnace;
- Part 44. Box-type resistance furnace;
- Part 45. vacuum hardening furnace;
- Part 46. Bell-type resistance furnace;

1 Scope

GB/T 10067.49-2014 is the Chinese national standard on basic specifications for electroheat installations-part 49: natural convection pit resistance furnaces, in the field of manufacturing engineering. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 3 September 2014 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 February 2015. Classification: ICS 25.180.10, CCS K61. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

GB/T 10067 in this section provides for common technical requirements natural convection pit Furnace products, test methods, inspection rules, Signs, packaging, transportation, storage, and ordering and delivery. This section applies to 4.1,

5.2 according to the requirements of the design, in the natural atmosphere or protective atmosphere conditions, the maximum operating temperature of 1000 °C, 1200 °C and 1400 °C heating and heat treatment of various types of industrial natural convection pit Furnace. This section also applies to similar natural convection Pit resistance furnace, the different parts can be otherwise. This section does not apply to household and similar electric appliances.

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.

GB 5959.1-2005 Safety of electric devices - Part 1. General requirements

GB/T 10066.1-2004 Test methods for electroheat installations - Part 1. General section

GB/T 10066.4-2004 Test methods for electric equipment - Part 4. Indirect resistance

furnaces

GB/T 10067.1-2005 basic technical conditions for electric devices - Part 1. General section

GB/T 10067.4-2005 Electric equipment basic technical conditions - Part 4. Indirect resistance furnaces

JB/T 3649 (all parts) resistance furnace refractory products

JB/T 7629-1994 refractory fiber lining in the design and installation specifications

JB/T 9691-1999 Heating Equipment Model methodology

3 Terms and Definitions

GB/T 10066.4-2004 and as defined in the following terms and definitions apply to this document.

3.1 Furnace size dimensionsofheatingchamber The design requirements of the furnace space dimensions, usually expressed in diameter and height. Hearth furnace mouth diameter less than the internal diameter of the pit clearance Furnace, furnace size of the "diameter" of the furnace mouth diameter, the "height" is a top clearance distance between the tile and hearth furnace. Other double by supply and demand Parties agreed.

Note. Some specifications pit furnace work zone size and dimensions of the furnace control see Appendix A.

3.2 Protective atmosphere protectiveatmosphere Pit furnace to protect the charge to avoid or reduce oxidation and decarbonization atmosphere.

4.1 Varieties and specifications

4.1.1 pit furnace atmosphere and according to the maximum operating temperature is divided into a number of varieties, as shown in Table 1.