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

GB/T 10067.413-2015

**Basic specifications for electroheat installations - Part 413:
Resistance furnaces using in the experiments**

电热装置基本技术条件 第413部分：实验用电阻炉

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Table of Contents

1	Scope	
2	Normative references	
3	Terms and Definitions	
4.2	Part	
4.3	The main parameters	
5	Technical requirements	
5.1	General requirements	
5.2	pairs of complementary design and manufacture of claim	
5.3	Performance Requirements	
5.4	sets requirements	
6	Test methods	
6.2	furnace furnace temperature uniformity and stability	
7.1	General provisions	
7.2	factory inspection items	
7.3	Type inspection items	
7.4	Technical grade 13 8 signs, packaging, transportation and storage	13
8.2	Nameplate	
9	Ordering and Delivery	14
9.1	General Requirements	
12	Surface temperature measurement 12 6.4 7 inspection rules and technical grade	

Foreword

GB/T 10067 "Basic electric device technical conditions" existing 23 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 34. Transistor high frequency induction heating apparatus;
- 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;

1 Scope

GB/T 10067.413-2015 is the Chinese national standard on basic specifications for electroheat installations - part 413: resistance furnaces using in the experiments, 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 11 September 2015 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 April 2016. Classification: ICS 25.180.10, CCS K 61. 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.

This section GB/T 10067 specifies the use of the box-type, tubular and crucible resistance furnace product (hereinafter referred to as the experiments were a box furnace, tube Furnace and crucible furnace, collectively referred to experiment with the requirements of resistance furnace), including product classification, technical requirements, test methods, inspection rules and techniques Grading, marking, packaging, transportation and storage, as well as ordering and delivery. This section applies to the natural ambience experimental resistance furnace, also suitable for protective atmosphere box furnace.

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 Grounding design specifications

GB/T 50065-2011 AC electrical installations

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 dimensionsoffurnacechamber Furnace nominal size. NOTE. The box-type furnace, the furnace size of the "wide" as width of mouth, "long" for the inside of the mouth clearance distance between the back wall of the furnace to "high" for the mouth height, excluding Arcuate portion of the upper portion of the furnace mouth; tube furnace, furnace length of the axial dimension of the furnace heating elements arranged in diameter tube inner diameter; crucible furnace, furnace Height of the furnace heating element arranged in axial dimension, the inner diameter of the crucible.

3.2 Protective atmosphere protectiveatmosphere Box-type furnace so as to protect the burden to avoid or reduce oxidation and decarbonization of the atmosphere upon heating.

3.3 Workspace dimensions dimensionsofworkingzone Experimental resistance furnace design regulations and indicated on the drawings, the furnace temperature uniformity to meet the requirements, allow you to place the burden of the furnace space dimensions.

3.4 Air furnace loss ratio ratioofno-loadpowerlosstoratedpower Experimental resistance furnace air furnace loss of rated power ratio used.