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

GB/T 10067.412-2015

**Basic specifications for electroheat installations - Part 412:
Box-type quenching furnaces**

电热装置基本技术条件 第412部分：箱式淬火炉

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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 10067.412-2015 is the Chinese national standard on basic specifications for electroheat installations - part 412: box-type quenching 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 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 general technical requirements for box-type quenching furnace products, test methods, inspection rules, marks, packages Equipment, transportation, storage, and ordering and delivery. This section applies to a controlled atmosphere, all kinds of laboratory and industrial in the range of 750 °C \u200bu200b~ 1100 °C with a box-type quenching furnace. Mainly used Steel parts carburizing, carbonitriding, carbon complex, bright hardening heat treatment process. This section also applies to a similar box-type hardening furnace, the different parts can be otherwise.

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 5959.4-2008 Safety of electric devices - Part 4. Particular requirements for resistance heating device

GB 5959.13-2008 Safety of electric devices - Part 13. Electric apparatus for explosive atmosphere of special requirements Determination and verification of

GB/T 9450-2005 steel carburizing hardened layer depth

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

GB/T 11354-2005 Steel parts nitriding depth measurement and metallographic examination

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

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 Workspace dimensions dimensionsofworkingarea Box-type hardening furnace design requirements, and indicated on drawings allows placement of the workpiece heating chamber spatial dimensions in millimeters (Mm).

3.2 Maximum load capacity maximumloading Specified maximum mass on the trays can be loaded charge of the design of box-type hardening furnace, in kilograms (kg).

3.3 Operating temperature workingtemperature Box-type quenching furnace provisions designed normal temperature, a temperature range in degrees Celsius (°C).