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

GB/T 10067.35-2015

**Basic specifications for electroheat installations - Part 35:
Medium frequency vacuum induction melting furnace**

电热装置基本技术条件 第35部分：中频真空感应熔炼炉

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Foreword

GB/T 10067 "Basic electric device technical conditions" existing 25 sections.

- Part 1. Common part;
- Part 2. Arc heating device;
- Part 21. Large AC arc furnace;
- 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 35. IF vacuum induction melting furnace;
- 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;

1 Scope

GB/T 10067.35-2015 is the Chinese national standard on basic specifications for

electroheat installations - part 35: medium frequency vacuum induction melting furnace, 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 9 October 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 May 2016. 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.

This section GB/T 10067 specifies the intermediate frequency vacuum induction melting furnace (hereinafter referred to as a vacuum furnace) product classification, technical requirements, test Methods, inspection rules, marking, packaging, transportation, storage, and ordering and delivery. This section applies to the working frequency higher than the frequency 50Hz, less than or equal to 10000Hz, rated capacity in the range of 0.01t ~ 30t By the IF frequency semiconductor device (hereinafter referred to as frequency devices) powered in a vacuum state of special alloy steel, nickel-based superalloy, titanium Alloys and copper and its alloys for smelting and ingot casting complex parts or an induction 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. Safety - Part 3

GB 5959.3 electric apparatus. Particular requirements for induction and conduction heating and induction melting apparatus means

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

GB/T 10066.3-2014 electric installations - Part 3. determined induction furnaces and coreless induction furnace

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

GB/T 10067.3-2015 Electric equipment basic technical conditions - Part 3. induction electric device

GB/T 10067.31-2013 electric equipment basic technical conditions Part 31. IF coreless induction furnace

JB/T 9691-1999 Heating Equipment Model methodology

3 Terms and Definitions

GB/T 10067.3-2015 and as defined in the following terms and definitions apply to this document.

3.1 Rated capacity ratedcapacity Provisions designed vacuum furnace and on the nameplate, under normal operating conditions of the furnace charge of receiving quality liquid.

3.2 Rated frequency ratedfrequency Provisions designed vacuum furnace and on the nameplate, the nominal frequency furnace power inverter device.

3.3 Rated working voltage ratedworkingvoltage Regulations and indicated on the nameplate design of vacuum furnaces, induction voltage across the coil.

4 Products

4.1 varieties and specifications Vacuum furnace usually by pouring way into the crucible tilting type pouring, tilt pouring furnace type and bottom-three varieties; divided by practices