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

GB/T 10067.21-2015

**Basic specifications for electroheat installations - Part 21:
Large capacity electric arc furnace using alternating current**

电热装置基本技术条件 第21部分：大型交流电弧炉

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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 10067.21-2015 is the Chinese national standard on basic specifications for electroheat installations - part 21: large capacity electric arc furnace using alternating current, 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 large AC electric arc furnace product classification, technical requirements, test methods, inspection rules and technical Grading, marking, packaging, transport and storage as well as ordering and delivery. This section applies to the rated capacity of 70t or more three-phase AC electric arc furnace steelmaking and for similar industrial large-scale or large electric arc furnace DC arc furnace for reference.

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/T 311.2-2013 Insulation coordination - Part 2. Guide to the use

GB/T 1981.1-2007 electrical insulating paints - Part 1. Definitions and general requirements

GB/T 2900.23-2008 Electrotechnical terminology industrial electric equipment

GB/T 3766-2001 Hydraulic System General technical conditions

GB/T 5019.5-2014 mica-based insulating materials - Part 5. electric equipment mica plate

GB/T 5019.11-2009 mica-based insulating materials Part 11. plastic mica plate

GB 5959.1-2005 Safety of electric devices - Part 1. General requirements Safety - Part 2

GB 5959.2-2008 electric apparatus. Particular requirements for arc furnace device

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

GB/T 10066.10-2005 test methods for electric installations - Part 10. Direct electric arc furnace

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

GB/T 10067.2-2005 Electric equipment basic technical conditions - Part 2. Arc heating device

GB/T 12326-2008 power quality voltage fluctuation and flicker

3 Terms and Definitions

GB/T 2900.23-2008, GB 5959.2-2008, GB/T 10066.10-2005 and GB/T 10067.2-2005 defined