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

中华人民共和国国家标准

GB 15735-2012

Replace GB 15735-2004

**Requirements for the safety and health in production
process of metal heat treatment**

金属热处理生产过程中安全、卫生要求

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China**

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Foreword

This standard is mandatory in full text.

This standard is drafted according to rules given in GB/T 1.1-2009.

This standard replaces GB 15735—2004 *Requirements for the Safety and Health in Production Process of Metal Heat Treatment*, compared with GB 15735—2004, changes of main technical contents are as follows:

- Part reference standards are increased (see Chapter 2);
- Contents in original Table 1 are modified;
- Table 3, Table 4, Table 5 and Table 8 in the original standard are deleted;
- Technical contents “5.1 Plant construction”, “5.2 Operating environment”, “6.2 Waste materials” are increased and modified;
- “General requirements” are increased in Chapter 7(see 7.1);
- Part technical requirements in Chapter 7 are increased and modified (see 7.2.1~7.2.10);
- The original “7.2 Gas furnace and heavy oil furnace” is changed to “7.3 Fuel furnace”;
- Technical contents in “7.4 Salt bath furnace” are increased and modified;
- The original “Ion nitriding equipment” is changed to “Plasma heat treatment equipment” (see 7.6);
- Open flash point temperatures for working temperatures of quenching oil and tempering oil are modified (see 7.9.3);
- The original 7.10~7.14 are combined into “7.11 Auxiliary equipment for heat treatment” and corresponding contents are increased;
- “8.3 Surface treatment” and “8.4 Chemical heat treatment” in the original standard are combined into “8.3 Surface heat treatment”
- 8.4.4~8.4.7 are increased in “8.4 salt bath heat treatment”;
- “Alignment” contents in original 8.7 are deleted;
- “Confined space” and “equipment overhaul” are increased (see 9.6, 9.7).

This standard is proposed and under the jurisdiction of National Technical Committee on Heat Treatment of Standardization Administration of China (SAC/TC 75).

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Previous versions that this standard replaces are as follows:

——GB 15735—1995; GB 15735—2004.

Requirements for the Safety and Health in Production Process of Metal Heat Treatment

1 Scope

This standard stipulates general technical requirements for the safety and health in production process of heat treatment.

This standard is applicable to heat treatment production and production installation provided for heat treatment production and safety and health related to heat treatment production.

2 Normative references

The articles contained in the following documents have become this document when they are quoted herein. For the dated documents so quoted, all the modifications (Including all corrections) or revisions made thereafter shall be applicable to this document.

GB 2893 Safety colours

GB 2894 Safety signs and guideline for the use

GB 5083 General rules for designing the production facilities in accordance with safety and health requirements

GB 5959.1 Safety in electroheat installations-Part 1:General requirements

GB 5959.3 Safety in electroheat installations - Part 3: Particular requirements for induction and conduction heating and induction melting installations

GB 5959.4 Safety in electroheat installations - Part 4: Particular requirements for safety resistance heating installations

GB 7231 Basic identification colors and code indications and safety sign for industrial pipelines

GB/T 10067.3 Basic specifications for electroheat installations—Part 3:Induction electroheat installations

GB/T 10067.4 Basic specifications for electroheat installations—Part 4:Indirect resistance furnaces

GB/T 11651 Code of practice for selection of personal protective equipments

GB/T 12801 General principles for the requirements of safety and health in production process

GB/T 15236 Occupational safety and health glossary

GB/T 27945.1 The management of hazardous solid wastes from heat treatment salt—Part 1:General management

GB/T 27945.2 The management of hazardous solid wastes from heat treatment salts—Part 2:Test method of extractives

GB/T 27945.3 The management of hazardous solid wastes from heat treatment salts—Part 3:Method of innocent treatment

GB/T 27946 Limited value of hazardous substance in the air of heat treatment working place

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