



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

GB/T 37752.1-2019

**Industrial furnaces and associated processing equipment --
Safety -- Part 1: General requirements**

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Table of Contents

Foreword...	4
1 Scope...	5
2 Normative references...	5
3 Terms and definitions...	6
4 Safety requirements and/or protective measures...	7
4.1 General...	7
4.2 Mechanical safety...	9
4.3 Electrical safety...	12
4.4 Thermal and cryogenic safety...	13
4.5 Noise...	16
4.6 Vibration...	17
4.7 Radiation safety...	17
4.8 Materials and substances processed, used or exhausted...	19
4.9 Ergonomics...	20
4.10 Hazard combination...	20
4.11 Malfunction...	20
4.12 Missing and incorrectly fitted safety devices...	21
5 Verification...	21
6 Information for use...	24
6.1 General requirements...	24
6.2 Location and nature of the information for use...	25
6.3 Signals and warning devices...	25
6.4 Instruction handbooks/manuals...	27
Annex A (Informative) List of significant hazards...	29

Foreword

GB/T 37752, Industrial furnaces and associated processing equipment - Safety, is divided as follows.

- Part 1. General requirements.

This Part is Part 1 of GB/T 37752.

This Part is drafted in accordance with the rules given in GB/T 1.1-2009.

This Part is identical to ISO 13577-1:2016 Industrial furnaces and associated processing equipment - Safety - Part 1. General requirements by using the translation method.

See Annex NA for Chinese documents that have consistent correspondence with the international documents normatively referenced in this Part.

This Part makes the following editorial changes.

- Change the unit "gal" in 4.1.2 to "cm/s²";
- Change the unit "bar" to "Pa";
- Add the informative annex NA.

This Part was proposed by China Electrical Equipment Industry Association.

This Part shall be under the jurisdiction of the National Technical Committee on Industrial Electro-heat Equipment of Standardization Administration of China (SAC/TC 121).

Drafting organizations of this Part. Xi'an Electric Furnace Institute Co., Ltd., Chongqing CISDI Thermal & Environmental Engineering Co., Ltd., Shaanxi Hongxinyuan Metallurgical Equipment Industry Co., Ltd., Henan Tianli Thermal Equipment Co., Ltd., Zhuzhou Electric Cooker Factory, National Center for Quality Supervision and Test of Electric Furnace, Xi'an Flit Heat Treatment Co., Ltd.

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Industrial furnaces and associated processing equipment -
Safety - Part 1. General requirements

1 Scope

This Part of GB/T 37752 specifies the general safety requirements common to industrial furnaces and associated processing equipment (TPE).

2 Normative references

The following documents are referred to in the text in such a way that some or all of

their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 12100:2010, Safety of machinery - General principles for design - Risk assessment and risk reduction

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 12100 and ISO 13574 apply.

4 Safety requirements and/or protective measures

The manufacturer shall maintain evidence that all safety requirements of the design have been fulfilled.

5 Verification

Proof of compliance of the safety requirements and/or protective measures shall be demonstrated by any one, or a combination, of the following.

6 Information for use

With this in view, it shall inform and warn the operator; the supervisor shall be notified and warned of residual risks.

Requirements concerning where signals and warning devices shall be fitted are given in Clause 4.

Annex A

(Informative)

List of significant hazards

This annex lists all significant hazards, hazardous situations and events, as far as they are dealt with in this document, that are identified by risk assessment as significant for this type of equipment and that require action to eliminate or reduce the risk. The following significant hazards can occur in the use of TPE.

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