



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

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**Standard for inspection and acceptance of industrial of
industrial furnaces building**

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1.0.1 This standard is formulated to unify the quality acceptance standards and methods

of industrial furnace building projects and ensure project quality and production safety.

1.0.2 This standard applies to the quality acceptance of industrial furnace building

projects.

1.0.3 The quality acceptance of industrial furnace building projects shall comply with

the provisions of relevant national standards, in addition to this standard.

2.0.1 Inverted arch

Masonry with concave arc or spherical surface.

2.0.2 Arch quoin brick

Refractory brick or prefabricated block connecting the arch or arch with the lower support.

2.0.3 Open cracks

Cracks on the surface of refractory bricks or prefabricated blocks, which have a length greater than 10 mm and a width greater than 0.2 mm.

2.0.4 Lock door brick

Refractory brick or prefabricated block that closes the last gap of a ring or a spherical masonry.

2.0.5 Hollow brick seam

Brick joints between wet masonry without refractory mortar bonding.

2.0.6 Sliding joint

Brick joints between adjacent layers or rows of masonry, that are not allowed to be into inspection batches, sub-item projects, subsection project, unit projects.

4.1.2 The division of inspection batches, sub-item projects, subsection projects, unit projects for the quality acceptance of the industrial furnace masonry project shall comply with the following provisions.

1 Inspection batches shall be divided according to the number of layers, construction sections, expansion joints, etc. of the parts, according to the size of the industrial furnace project, construction and quality inspection and control needs.

2 Sub-item projects shall be divided according to the structural composition or section of the industrial furnace; sub-item projects may consist of one or more inspection batches. When the masonry project size of the industrial furnace is less than 100 m³, one (set) furnace can be regarded as a sub-item project.

3 The sub-section projects shall be divided according to the number of industrial

furnaces. When a sub-section project is large and can be divided into two or more independent projects, these two or more independent projects can each become a sub-section project or a sub-branch project. Where there is only one sub-item project in a sub-division project, the sub-item project can be a sub-section project.

4 The unit project shall be divided according to the industrial furnace masonry

project of an independent production system. When a unit project is large and can be divided into two or more independent projects, these two or more independent projects can each become a unit project or a sub-unit project. When there is only one sub-section project in a unit project, the sub-section project can be a unit project. The division of unit projects in special cases shall comply with the following provisions.

1) In an independent production system, when the masonry project size of the industrial furnace is less than 500 m³, the industrial furnace masonry project can be regarded as a sub-section project, which together with other trades or other construction and installation projects forms a unit project.

2) Where there are several industrial furnaces in a building or structure, the masonry projects of several industrial furnaces can be a unit project; each industrial furnace masonry project can be a sub-section project.

4.2.1 The quality acceptance of the inspection batch shall comply with the following

provisions.

- 1 The quality of the main control item shall all pass the inspection and acceptance;
- 2 Each sampling point of the general item shall comply with the provisions of this

4.3.1 The quality of the inspection batch shall be based on self-inspection; the project

professional quality inspector of the construction organization shall fill in the "Inspection batch quality acceptance record"; sign it before applying for acceptance.

The professional supervision engineer or the professional technical person in charge of the construction organization shall organize the professional foreman of the construction organization, the professional quality inspector of the project, etc. to conduct acceptance.

4.3.3 The quality of the sub-item project shall be filled in by the project professional

quality inspector of the construction organization, submitted to the professional technical person in charge of the project for signature before applying for acceptance.

The professional supervision engineer or the project professional technical person in charge of the construction organization shall organize the project professional quality inspector of the construction organization and the professional technical person in charge of the project, etc. to conduct acceptance.

4.3.4 The quality acceptance record of the sub-item project should comply with the

format of Appendix B of this standard.

4.3.5 The project professional quality inspector of the construction organization shall

fill the "Sub-section (sub-branch) project quality acceptance records"; send to the person in charge of the project for signature, before applying for acceptance. The chief supervisor engineer shall organize the project leaders of the supervision organization, building organization, construction organization to jointly conduct the acceptance.

4.3.6 The quality acceptance record of the sub-section (sub-branch) project shall comply with the format of Appendix C of this standard.

4.3.7 For the quality of the unit project, the construction organization shall fill the "Item

(sub-item) project quality acceptance records" to apply for acceptance; send relevant data to the building organization, supervision organization, design organization for review. The acceptance conclusion shall be filled by the supervision organization or building organization.

Appendix D of this standard. The as-built acceptance record of the unit (sub-unit)

project quality should comply with the format of Appendix E of this standard.