



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

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Code for design of clean room

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Code for Design of Clean Room

1.0.1 This code is formulated with view to making the design of clean room to be technologically advanced, economic, reliable, safe and qualified as well as comply with requirements of energy conservation, labor sanitation and environmental protection.

1.0.3 Design of clean room shall the basis of construction installation, maintenance, examination, test and safe operation.

1.0.4 In addition to this code, the design of clean room shall also comply with requirements

of relevant current standards.

2.0.1 Clean room

The room where the suspended particle concentration in the air is controlled; its construction and application shall be able to reduce the entering, production and retention of particles in the room. Other relevant parameters in the room like temperature, humidity and pressure shall be controlled according to requirements.

2.0.2 Clean zone

Restricted zone where the airborne particle concentration in the air is controlled; its construction and application shall be able to reduce the entering, production and retention of particles in the space. Other relevant parameters in the space like temperature, humidity and pressure shall be controlled according to requirements. Clean zone may be open or closed type.

2.0.3 Mobile clean booth

Small clean room which may be moved as a whole and may be divided into two types respectively provided with hoarding made of rigid and flexible materials.

2.0.4 Room for cleaning human body

The room for cleaning human body according to certain procedure before entering into clean zone.

2.0.5 Room for cleaning material

The room for cleaning material according to certain procedure before entering into clean zone.

2.0.6 Particle size

The diameter of the globoid which is shown on the adopted particle size tester and equivalent to the response of the tested particle.

2.0.7 Airborne particle

Solid or liquid airborne particles (with dimension of 0.1~5 μm) in the air used for classification of air cleanliness which are not used to represent the physical property, chemical property, radioactivity and life feature of airborne particles.

2.0.8 Ultrafine particle

Particles with equivalent diameter less than 0.1 μm .

2.0.9 Microparticle

Particles with equivalent diameter greater than 5 μm .

3.0.1 The classification of air cleanliness of airborne particles in clean room (zone) shall

meet the following requirements.

3.0.2 The state (as-built, at-rest and operational) of classification of air cleanliness shall be

negotiated with the Owner.

3.0.3 The air cleanliness shall be measured according to the requirements of Appendix A in

this code.

3.0.4 Where the microorganism or chemical pollutant is controlled by the process

requirements, the corresponding concentration limit of microorganism and chemical pollutant

shall be determined for each classification of air cleanliness according to the process characteristics.

4.1.1 The location selection of clean room shall meet the following requirements and shall

be determined after economic and technical comparison.

4.1.2 For location selection of clean room with microvibration control