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

GB/T 22156-2008

**Acoustics -- Procedure for the comparison of noise-emission
data for machinery and equipment**

声学 机器与设备噪声发射数据的比较方法

(English Translation)

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Foreword

This standard is identical with ISO 11689:1996 "Acoustics --- comparative method machines and equipment noise emission data" (in English).

The Standard Appendix A, Appendix B, Appendix C, Appendix D is an informative annex.

This standard was proposed by the Chinese Academy of Sciences.

This standard by the National Standardization Technical Committee of Acoustics (SAC/TC17) centralized.

This standard was drafted. Institute of Acoustics, Tongji University, Communication University of China Institute of Acoustics spread.

Introduction

Domestic and international regulations are increasingly demanding production and use of low-noise machinery and equipment. This means that users manufacturers, machinery and

equipment and authority have noted, the noise associated with a particular product family emission machine having sexual contact. But only to obtain or determine Reliable information about the actual noise emission, it is possible to determine such a link.

Based on this information, the period of time for the market with a clear definition of a family, a class or a group of machines, are able to determine their Noise control performance index.

Comparison and evaluation of noise emission data for the following person or organization uses.

- a) need to get a designer family of machine noise level of the relevant information, such as a certain kind of new features designed to meet the requirements;
- b) relative to the market you want to compare the user or buyer similar machinery or equipment noise emissions;
- c) Prepare the development of machine safety standards, noise test standards or the development of the working group related to a particular family of machine noise rules;
- d) is responsible for legislation, labor supervision and inspection, occupational health and safety authority;
- e) manufacturers and potential users of the database application of noise emission;
- f) In the field application of appropriate technology for a preliminary estimate of the noise level acoustic consultant.

In addition to master the knowledge of the source of noise control, the present method also requires specific knowledge to grasp the considered machine group.

Working noise emission data collection and compilation of the relevant units responsible for the composition of the Committee.

GB/T 22156-2008/ISO 11689:1996 Machinery and equipment acoustic noise emission data Comparison of Methods

1 Scope

This standard specifies the noise emission in accordance with the data for the family, one model, a group or sub-group of machines or equipment, determine the noise controllability the method can. In principle, as long as the noise test standards or with comparable noise emission data, this method is applicable to any type of machine or equipment.

NOTE: The standard describes the general principles of this method is also applicable to other physical quantities (such as. vibration).

This standard specifies the method of comparison of noise emission data and requirements can be used to determine the noise control performance.

The process may be a single noise machine or group of machines in a certain type of machine to assess the emission, which allows comparison of the acoustic performance of the machine. However, each machine needs to have non-acoustic data and applications comparable.

Appendix B gives an example of how a group of machine noise emission data evaluation.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

Noise Noise Test Standards GB/T 19052 Acoustics emitted by machinery and equipment specification drafting and presentation (GB/T 19052-2003, ISO 12001:1996, IDT)

3 Terms and Definitions

This standard adopts GB/T 19052 and the following terms and definitions.

With similar design having a type of machinery or equipment to achieve the same function.

Characterization of a particular group of non-machine acoustic quantity.

NOTE: It has a value within the variation between individual machines (e.g.. power, speed, load, size).

Noise emitted by a given number of machines in all the machines performance determined (see Chapter 4 classification), available L line (3.7) to GB/T 22156-2008/ISO 11689:1996