

ICS 19.100
CCS J 04



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

GB/T 19800-2005

**Non-destructive testing -- Acoustic emission inspection --
Primary calibration of transducers**

无损检测 声发射检测 换能器的一级校准

(English Translation)

Issued on: June 8, 2005

Implemented on: December 1, 2005

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People Republic of China, China National
Standardization Administration Committee**

Table of Contents

What this standard covers	1
Document data	2

What this standard covers

This standard specifies: acoustic emission transducers absolute calibration methods. Its purpose is to establish a unified acoustic emission testing Standard, establish the basis for the realization of data related, and different (different locations at different times acquired) test results provide an explanation. Description acoustic emission transducers Performance must provide an acceptable methods. This standard is coupled to receive a solid dielectric surface elastic waves acoustic emission transducer calibration method to establish a one. Calibration is a transducer for acoustic emission detection often receives sonic frequency response. Transducer voltage response at approximately 10kHz to 1MHz- discrete frequency intervals determined. The input is known on the coupling surface dynamic displacement. The output voltage of each unit is calibrated mechanical input (displacement, velocity, acceleration). This standard applies to: two standard transducer and used to detect transducers calibration.

Document data

International classification (ICS): 19.100.

Chinese classification (CCS): J04.

Estimated length of the Chinese original: 25,248 words.

Adopted international standard: ISO 12713-1998; IDT.