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

GB/T 10284-2016

Replacing GB/T 10284-2008

**Forestry machinery - Portable pneumatic fire extinguisher -
Measurement of noise**

林业机械 便携式风力灭火机 噪声的测定

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Table of Contents

- 1 Scope
- 2 Normative reference documents
- 3 Measured parameters
- 4 Measuring instruments and precision

Foreword

This standard is drafted in accordance with the rules given in GB/T 1.1-2009. The standard instead of GB/T 10284-2008 "forestry machinery portable wind power machine noise determination", and GB/T 10284- 2008 compared to the main technical changes are as follows:

--- modified the normative reference file; - modified the "ambient temperature" requirement in environmental conditions (see 5.3,

5.3 of.2008); - modified the requirements of the noise test site (see 5.3,.2008 5.1); - modified the description of the fixed position of the fire extinguisher on the test stand (see 6.3.1,.2008, 6.3.1); - modified the sound power level to determine the hemispherical radius of the description (see 6.2.2.2,.2008 edition of Chapter 7); - modified the requirement for "correction factor K2A" (see chapter 6.3.3, chapter 7 of the.2008 edition);

--- modified the measurement conditions (see 6.4,.2008 version 6.2); - Added "Marking and testing of noise values" (see Chapter 8). This standard is proposed by the State Forestry Administration. This standard is nationalized by the National Forestry Machinery Standardization Technical Committee (SAC/TC61). The standard responsible for the drafting unit. Yongkang Xing Tiger Power Machinery Co., Ltd. This standard participates in the drafting unit. Harbin Forestry Machinery Research Institute of the State Forestry Administration, Taizhou Yulin Power Machinery Co., Ltd., Shandong Sheng Zhongtian Machinery Group Co., Ltd., Heilongjiang Zhongyu Longhua Technology Development Co., Ltd., National Portable Forestry Machinery Quality Supervision and Inspection Center, Jiangsu Linhai Power Machinery Group Corporation. The main drafters of this standard. Shang Nongrong, Li Yingzhen, Sheng Ping, Liu Xiangfeng, Lu Jingqun, Wang Zhendong, Yuan Xiaochun, Li Pai. This standard replaced the previous version of the standard release. GB/T 10284-1988, GB/T 10284-1999, GB/T 10284-2008. Forestry machinery Portable wind fire extinguishers Determination of noise

1 Scope

GB/T 10284-2016 is the Chinese national standard on forestry machinery - portable pneumatic fire extinguisher - measurement of noise, in the field of agriculture. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 24 February 2016 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 September 2016. Classification: ICS 65.060.80, CCS C84. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the gasoline engine as the driving force of the portable wind extinguisher (hereinafter referred to as the fire extinguisher) A weighted sound power level and ear noise Sound of the method of determination. This standard applies to the forestry machinery portable wind extinguisher noise measurement, but also for forestry machinery portable wind sprayer Of the noise determination.

2 Normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article Pieces. For undated references, the latest edition (including all modifications) applies to this document. Electroacoustics - Sound level gauges - Part 1. Specifications Testing and verification of noise emission values for acoustic machines and equipment GB/T 14574-2000

GB/T 17248.2 Acoustic machines and equipment emitted noise Operating position and other specified positions Measurement of the emission sound pressure level A method of approximating free field above a reflective surface Measurement of sound absorption in acoustic reverberation chamber GB/T 20247

ISO 3744..2010 Acoustic sound pressure method for the determination of noise source sound power level of the above-mentioned approximate free field engineering method (Acous- tics-Determination of sound power levels and sound energy levels of noise sources using sound pressure-engineering methods for an essentially free field over a reflecting plane

3 Measured parameters

A weighting and frequency bands (if required) time average sound pressure level, the measurement requirements shall comply with ISO 3744..2010 and GB/T 17248.2. A weighting and each band (if required) sound power level and ear noise.

4 Measuring instruments and precision

4.1 sound level meter According to the provisions of GB/T 3785.1 using the integral average sound level meter for measurement; or according to the provisions of GB/T 3785.1 use sound level meter "Slow" time-weighted characteristics of the measurement.

4.2 microphone The microphone diameter should be no more than 13mm. In order to avoid wind noise interference, to allow the installation of wind shield, but the impact on the measurement results should not be super $\pm 0.5\text{dB}$.

4.3 tachometer The measurement error of the tachometer shall be within $\pm 1\%$ of the reading.