Standard Recommendation
S.R. CEN/TR 15068:2009

Gas welding equipment - Measurement of noise emitted by blowpipe for welding, cutting, heating, brazing and soldering - Measurement method

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English Version

Gas welding equipment - Measurement of noise emitted by blowpipe for welding, cutting, heating, brazing and soldering - Measurement method

Matériel de soudage aux gaz - Mesurage du bruit émis par les chalumeaux destinés au soudage, brasage, coupage et chauffage - Méthode de mesurage

Gasschweißgeräte - Messungen für von Brennern für Schweißen, Schneiden, Wärmen, Hartlöten und Weichlöten erzeugte Geräusche - Messverfahren

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Foreword

This document (CEN/TR 15068:2009) has been prepared by Technical Committee CEN/TC 121 “Welding”, the secretariat of which is held by DIN.

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1 Scope

This Technical Report specifies a test method for measuring the noise emitted by manual blowpipes according to EN ISO 5172 used for welding, cutting and allied processes.

This test method is used only for comparative purposes between manual blowpipes when tested under nominal conditions under clause 5.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 13622:2002, *Gas welding equipment — Terminology —Terms used for gas welding equipment*

EN 61260, *Electroacoustics — Octave-band and fractional-octave-band filters (IEC 61260:1995)*

EN 61672-1:2003, *Electroacoustics — Sound level meters — Part 1: Specifications (IEC 61672-1:2002)*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 13622:2002 and EN 61672-1:2003 apply.

4 Measurement conditions

4.1 General

Measurement can be performed indoors only.

To measure the maximum emitted noise, the blowpipe under test is set in such a way that flame axis be horizontal, at least 1,5 m above the ground level, at least 1,5 m from the ceiling and at least at 5 m from the walls. Noise is measured for each type of nozzle which can be fitted on the blowpipe under nominal gas supply conditions indicated by the manufacturer. Microphone of sound level meter is placed at 1 m from the nozzle tip (see 4.4, Figure 1).

4.2 Measurement and correction of background noise

Measurements of background noises shall be performed in order to guarantee that measurements of noise emitted by blowpipes are not influenced by interferences. Background sound pressure level shall be lower than noise level emitted by the blowpipe and background together by more than 6 dB.

If difference of level is within 6 dB and 15 dB, calculate corrections of noise level according to Equation (1):

$$L_{\mathrm{pA}} = 10\lg(10^{L_{\mathrm{pA,sb}}/10} - 10^{L_{\mathrm{pA,b}}/10})\mathrm{dB} \quad (1)$$

where

L_{pA} is the corrected noise level emitted by the blowpipe, in decibels;

$L_{\mathrm{pA,sb}}$ is the sound pressure level of the blowpipe and the background noise together, in decibels;