

American National Standard

*for Outdoor Power Equipment –
Internal Combustion Engine-Powered
Hand-Held Grass Trimmers
and Brushcutters –
Safety and Environmental Requirements*



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ANSI/OPEI

B175.3-2013

Revision and redesignation of
ANSI B175.3-2003

American National Standard
for Outdoor Power Equipment –

Internal Combustion Engine–Powered
Hand-Held Grass Trimmers
and Brushcutters –
Safety and Environmental Requirements

Sponsor

Outdoor Power Equipment Institute

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Foreword (This foreword is not part of American National Standard ANSI/OPEI B175.3-2013.)

This standard is the third revision of *American National Standard for Outdoor Power Equipment - Internal Combustion Engine--Powered Hand-Held Grass Trimmers and Brushcutters - Safety and Environmental Requirements*, ANSI/OPEI B175.3. The first edition of this standard was developed under the auspice of the Portable Power Equipment Manufacturers Association (PPEMA) and published in 1997. The second and third editions of this standard were developed under the auspice of the Outdoor Power Equipment Institute (OPEI).

This standard contains five annexes. Annex A is informative and is not considered part of this standard. Annexes B through E are normative and are considered part of this standard.

A summary of the principal changes included in this revision is as follows:

- Scope updated to address how to handle certain cutting attachments
- Sound level testing updated to reference ISO 22868 and added annex B for bystander sound.
- Vibration level testing updated to reference ISO 22867.
- Various other clerical, technical and clarification changes made throughout the standard.
- Added evaluations and requirements for fuel lines and tanks (see annexes C through E)

Consensus for this standard was achieved by use of the Canvass Method.

Suggestions for improvements to this standard are welcome. They should be sent to the Outdoor Power Equipment Institute, 34 South Patrick Street, Alexandria, VA 22314.

The following organizations recognized as having an interest in the standardization of safety requirements for trimmers and brushcutters were contacted prior to the approval of this revised standard. Inclusion in the list does not necessarily imply that the organization concurred with the submittal of the proposal to ANSI.

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U.S. Consumer Product Safety Commission (John Murphy)
USDA Forest Service/San Dimas Technology & Development (Ralph Gonzales)

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Internal Combustion Engine–Powered Hand-Held Grass Trimmers and Brushcutters – Safety and Environmental Requirements

1. Scope and Purpose

1.1 Scope

The requirements of this Standard apply to:

- a) Internal combustion engine–powered, hand-held, grass trimmers intended for use with flexible nonmetallic line or other types of nonmetallic cutting attachments, and
- b) Internal combustion engine–powered, hand-held, brushcutters intended for use with cutting blades and other cutting attachments.

NOTE – If a grass trimmer is marketed by the manufacturer as convertible to a brushcutter, then the converted unit shall comply with requirements for brushcutters and vice-versa.

A convertible unit may be marketed as a grass trimmer or a brushcutter without including the devices required for conversion in the packaging, provided the operator manual clearly addresses the need to acquire and use the required conversion devices and the manufacturer makes such devices available as optional equipment. Trimmers and brushcutters with back mounted power units are not covered by this standard.

This standard is not applicable to machines equipped with metallic cutting attachments consisting of more than one piece, e.g., pivoting chains or flail blades.

The requirements of this standard do not cover cutting attachments not approved for use by the equipment manufacturer. However, the applicable test procedures, related to cutting attachments, contained within this standard may be used by a component manufacturer of after-market cutting attachments to qualify their cutting attachments for use on grass trimmers or brushcutters manufactured by