

ANSI/ASABE S613-1.1 MAY2023

Tractors and Self-Propelled Machinery for Agriculture — Air Quality Systems for Cabs — Part 1: Terminology and Overview



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Proposed by the ASABE Environment within Ag Vehicle Enclosures subcommittee; approved by the Power and Machinery Division and as an American National Standard February 2009; reaffirmed January 2014, December 2018; revised May 2023.

Keywords: Air quality, Cabs, Environment, Engineering control, Filters, HVAC, Procedures, Safety, Terminology, Test, Tractor, Ventilation

1 Scope

This standard is intended for application to agricultural self-propelled machinery including tractors as defined by ASABE Standard ANSI/ASAE S390. It covers terminology, definitions and an overview of how cabs may be used in contaminated environments as part of an Occupational Health and Safety Management System.

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.

ANSI/ASAE S390, Tractors and machinery for agriculture and forestry — Basic types — Vocabulary

ISO 5353:1995, Earth moving machinery, and tractors and machinery for agriculture and forestry — Seat index point

ASABE/ISO 14269-1:1997, Tractors and self-propelled machines for agriculture and forestry — Operator enclosure environment — Part 1: Vocabulary

ASABE/ISO 14269-5:1997, Tractors and self-propelled machinery for agriculture and forestry — Cab environment — Part 5: Pressurization system, test method

ANSI/AIHA Z10, American Industrial Hygiene Association — Occupational Health and Safety Management Systems

3 Terms and Definitions

For the purpose of this standard these definitions apply:

3.1 aerodynamic diameter: diameter of a unit density sphere (i.e., density = 1.00 g/cm³) that would have the same settling velocity as the particle or aerosol in question