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Agricultural machinery — Equipment for sowing — Minimization of the environmental effects of fan exhaust from pneumatic systems

Matériel agricole — Semoirs — Considérations pour réduire au minimum les effets de l'échappement du ventilateur des systèmes pneumatiques

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Foreword

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The committee responsible for this document is ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 3, *Safety and comfort*.

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Introduction

This International Standard has been developed to consider potential methods of minimizing the effects of seed coating dust drift when mixed in the exhaust fan air flow. This dust has the potential to become fugitive during the sowing process on equipment with pneumatic systems.

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Agricultural machinery — Equipment for sowing — Minimization of the environmental effects of fan exhaust from pneumatic systems

1 Scope

This International Standard specifies various means of minimizing the environmental effects of fan exhaust from pneumatic systems for vacuum-style sowing agricultural field equipment used for sowing coated seeds.

It is applicable to vacuum-style sowing systems where "dust off" (fugitive) material from seed coatings can mix with fan (blower) intake air and be exhausted into the atmosphere.

This International Standard is not applicable to

— conveyance systems between a central tank and remote meters where the air is exhausted at the remote meters, and

— conveyance systems where the meter is at a central tank and the air is exhausted at a ground engaging opening device.

The design principles in this International Standard are not applicable to pneumatic equipment for sowing which was manufactured before the date of its publication.

NOTE National or local requirements can apply which could be more stringent.

2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

2.1
direct drift
quantity of plant protection product that is carried out of and deposited within specified distance of the sowed area by the action of air currents during the sowing process

2.2
fan exhaust zone
cylindrical shape (static) that defines the boundaries of the fan exhaust of a pneumatic system

2.3
vacuum-style sowing system
pneumatic system where negative air pressure is used to meter seeds on equipment for sowing

2.4
zero position
distance from the sowing area that is half of the row width from the last row

Note 1 to entry: See Figure 2.

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