



ISO 19932-2

**Equipment for crop protection —
Knapsack sprayers —**

Part 2:
Test methods

*Matériel de protection des cultures — Pulvérisateurs à dos —
Partie 2: Méthodes d'essai*

**Third edition
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This third edition cancels and replaces the second edition (ISO 19932-2:2013), which has been technically revised.

The main changes are as follows:

- the scope has been changed to include sprayers with a nominal volume of more than 6 l in order to address sprayers in professional use only;
- the test methods have been aligned with the modified requirements of ISO 19932-1.

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The application of plant protection products with knapsack sprayers should take into consideration biological, economic, environmental and operator issues.

The aim of this document is to specify test methods for the verification of requirements for equipment to ensure safe use and protect the environment.

Implementation of ISO 19932-1:2025 and ISO 19932-2:2025 will achieve an appropriate level of operator safety and avoid unnecessary dispersal of plant protection products into the environment.

This document is of relevance, in particular, for the following stakeholder groups representing the market players with regard to machinery safety:

- machine manufacturers (small, medium and large enterprises);
- health and safety bodies (regulators, accident prevention organizations, market surveillance, etc.)

Others can be affected by the level of machinery safety achieved with the means of the document by the above-mentioned stakeholder groups:

- machine users/employers (small, medium and large enterprises);
- machine users/employees (e.g. trade unions, organizations for people with special needs);
- service providers, e.g. for maintenance (small, medium and large enterprises);
- consumers (in case of machinery intended for use by consumers).

The above-mentioned stakeholder groups have been given the possibility to participate at the drafting process of this document.