



## Research by Sendot

### Conservation of dry seed

The quality of seed is a major concern of commercial seed producers. One of the aspects of seed quality is how well it can be stored. Seed chlorophyll is one of the factors correlated with seed storage. High seed chlorophyll (unripe seed) can mean that the seed cannot be stored for long periods. The seed chlorophyll can be measured with Sendot chlorophyll sensors having high sensitivity and suitable for field applications.

#### Overview

##### The need

Did you know that with non-invasive oxygen measurement the oxidation of seed can be measured quite easily?

##### The solution

Sendot Research has developed sensor technology which permits companies to assess important quality parameters of their seeds.

##### The Benefit

- Determine optimal harvesting date of seeds
- Portable sensor (hand-held)
- Direct readout with smartphone/tablet

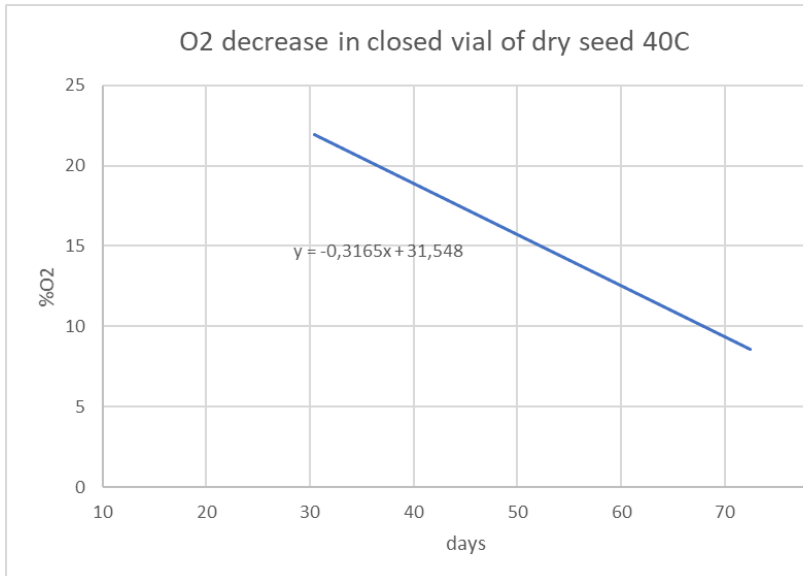
A second aspect of Seed degradation is its oxidation. This can be measured with Sendot non-invasive oxygen determination technology. A self-adhesive sticker capable of measuring oxygen and temperature in a vial that can be closed tightly with respect to oxygen makes it possible to measure the oxygen consumption of dry seed at ambient temperatures. One can also do an accelerated aging test at elevated temperatures.



*“Guaranteeing the quality of seeds is vital for a seed manufacturer. We know that clients want quality for their money and we as a sensor manufacturer are deeply involved in this mindset. Our sensors help companies to determine the optimum harvesting date and storage strategy of their seeds thus ensuring quality to their clients and maintaining a strong reputation”* A. Draaijer, General Manager Sendot Research B.V.

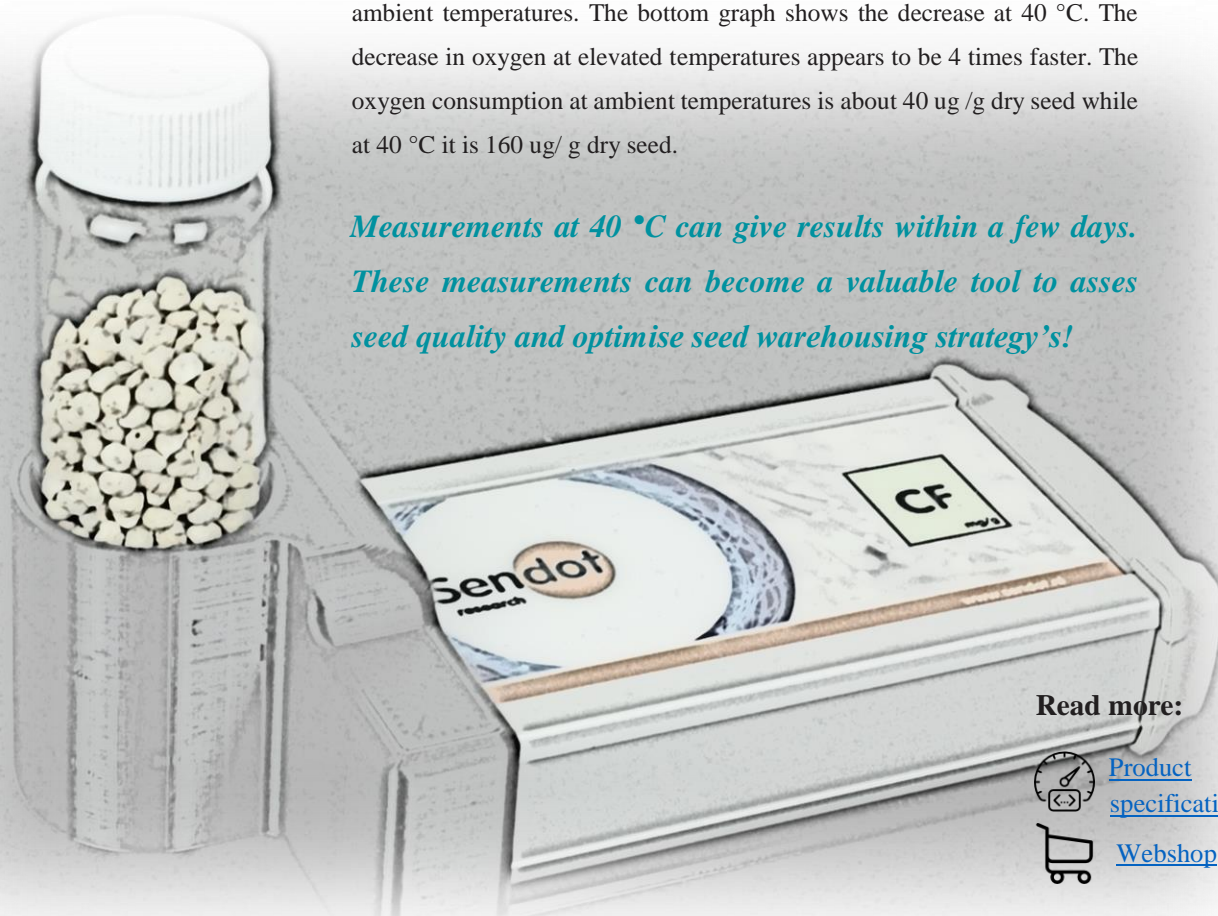
*“Easy to use seed quality test, as in a portable field instrument will assure a better seed quality”*

—Ruud Kaarsemaker, senior scientist, Groen Agro Control



The graphs above show the Oxygen decrease of a completely filled, securely closed glass vial with 20 gram seed. The top hand graph show the decrease at ambient temperatures. The bottom graph shows the decrease at 40 °C. The decrease in oxygen at elevated temperatures appears to be 4 times faster. The oxygen consumption at ambient temperatures is about 40 ug/ g dry seed while at 40 °C it is 160 ug/ g dry seed.

*Measurements at 40 °C can give results within a few days. These measurements can become a valuable tool to asses seed quality and optimise seed warehousing strategy's!*



Read more:

-  [Product specifications](#)
-  [Webshop](#)

**Adres**

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