



Traditional Cork
with
Oxygen Transfer Rate Technology

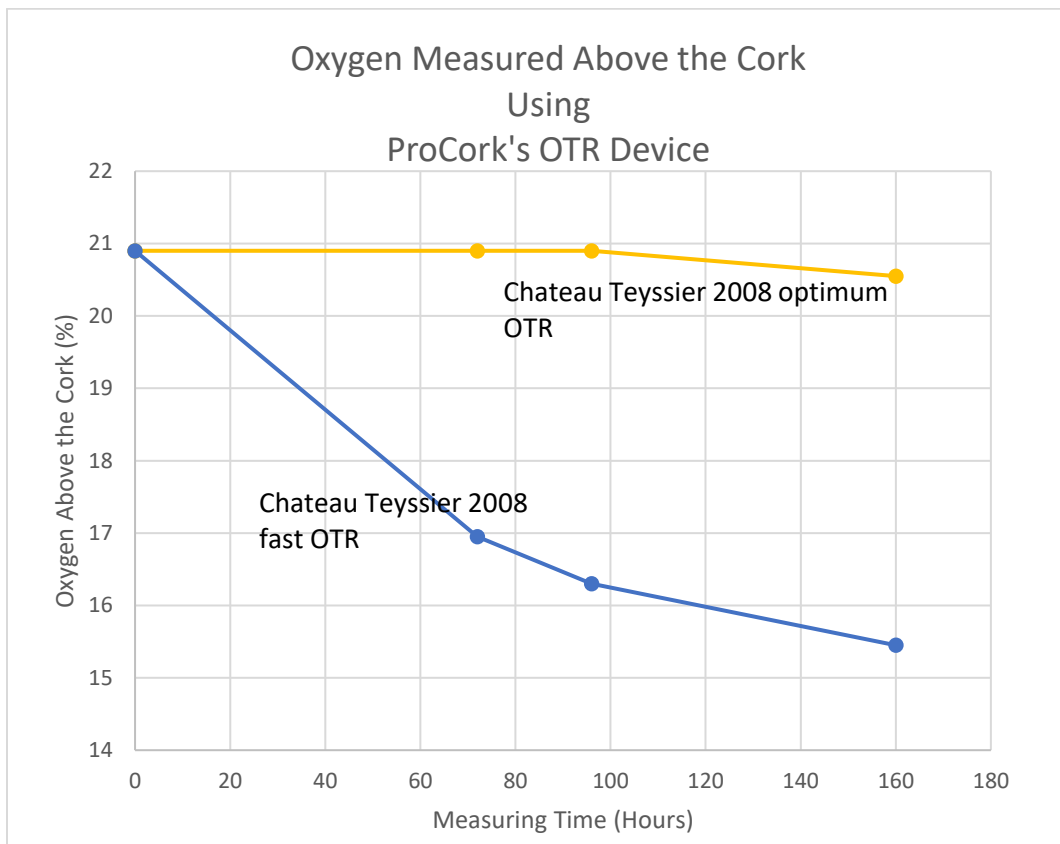
Oxygen Transmission Instrument

October 2019

In October 2019 ProCork filed a patent for its new Oxygen Transmission Instrument (OTI) that can measure Oxygen Transmission Rate (OTR) on the spot.

Bottles with corks that will pre-maturely oxidise wine can be identified within hours. Even years after the bottling the oxygen transmission rate can be measured. The Oxygen Transfer Instrument measures the oxygen depleting just above the cork. The capsule is removed and the instrument is placed over the cork. If the oxygen drops very fast it shows which bottles won't be quite right.

The first verification tests were carried out by Sensenet in France in October 2019 and the results are reported here.





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Two bottles of Chateau Teysier 2008 were measured. The first bottle had natural cork and the oxygen above the cork dropped from 20.9% to 17.0% in 76 hours giving an OTR of 0.00067 ml/day based on the volume of the cell above the cork. The second bottle had ProCork natural cork with the membrane attached to the end and it dropped from 20.9% to 20.6% in 76 hours. The calculated OTR was 0.00015 ml/day.

The Chemical analysis on the two bottles will be reported later to confirm the effect of a fourfold increase in oxygen transmission accumulated over nine years.