



SITEVI
INNOVATION AWARDS

NOMA Sense™ O₂ Trace Oxygen Analyzer Set



Nomacorc offers a solution to rapidly measure the total oxygen contents in wine. The solution provides a direct and facile reading for the dissolved oxygen concentration in the wine and the amount of gaseous oxygen in e.g. the headspace of a bottle. The method is based on state-of-the-art luminescence technology which allows for a precise and non-destructive quantification of the oxygen value.

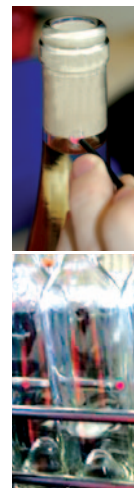
WHAT IS IN A NOMASENSE™ OXYGEN ANALYZER SET?

- Presens® Fibox™ 3 LCD trace v7 oxygen analyzer
- For non-invasive oxygen detection: Polymeric optical fiber 2.5 m long & 50 sensor spots with 5 mm diameter (PSt3 or PSt6) + 10 sensor spots with 10mm diameter (PSt3)
- For invasive oxygen detection: Dipping probe with 10 m length



SENSOR RECOMMENDATIONS FOR WINEMAKING STAGES

3 LCD TRACE V7	INVASIVE OXYGEN SENSOR		NON-INVASIVE OXYGEN SENSOR	
	PSt3	PSt6	PSt3	PSt6
Pressing/crushing	✓	✗	(✓)	✗
Fermentation	✓	✓	✓	✓
Barrel aging	✓	✓	✓	✓
Micro-oxygenation	✓	✓	✓	✓
Bottling	✓	✗	✓	✗
Bottle aging	✗	✗	✓	✓
Closure permeation testing	✗	✗	✗	✓



SENSOR SPOT SPECIFICATIONS

SENSOR TYPE PST3			SENSOR TYPE PST6	
SPECIFICATIONS	GASEAOUS OXYGEN	DISSOLVED OXYGEN	GASEOUS & OXYGEN	DISSOLVED OXYGEN
Measurement range	0-50% oxygen	0 – 22 mg/L	0-4.2 % oxygen	0-1.8 mg/L
Limit of detection	0.31 hPa	15 ppb	0.02 hPa	1 ppb
Accuracy at 20°C	0.2 % of the concentration		3 % of the concentration	
Measurement temperature range	0 – 50°C		0 – 50°C	

KEY BENEFITS OF THE NOMASENSE™ OXYGEN ANALYZER SET

- **Accurate tool to determine the total amount of oxygen in wine (both dissolved and gaseous oxygen in headspace)**
- **Portable and versatile tool for measuring oxygen at the various stages of winemaking**
- **Non-destructive and non-invasive tool reducing quality testing time & cost (e.g. lower number of replicates & less samples to be prepared)**
- **Sensors can be re-used many times and withstand winery cleaning practices**

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