Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
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Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
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Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35
Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

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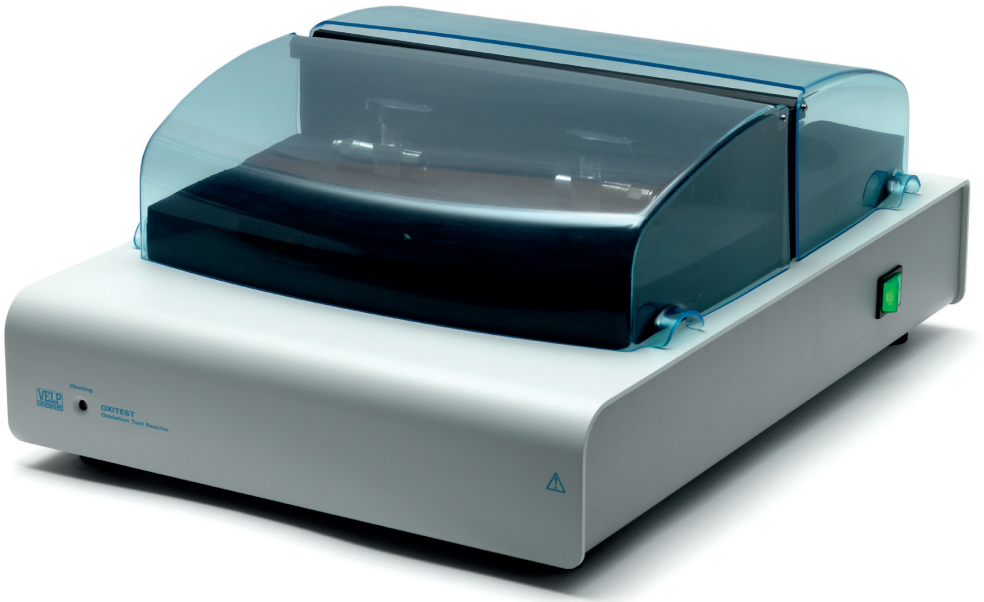
OXITEST

Oxidation Stability Reactor

Oxidative Stability Studies Directly on the Whole Sample
According to AOCS Standard Procedure



OXITEST Oxidation Stability Reactor

The OXITEST is designed for R&D and Quality Control laboratories interested in investigating the behaviour of fat oxidation stabilty. The OXITEST speeds up the oxidation process because of the two accelerating factors: temperature and pressure. The instrument measures the absolute pressure change of oxygen inside the two titanium heating chambers at constant temperature, thus monitoring the oxygen uptake by reactive components in the sample and automatically generating an IP value for further analysis via software.

REPRESENTATIVE RESULTS

The OXITEST ensures representative results by determining the oxidation stability of the whole sample without extensive sample preparation: be it solid, liquid, or doughy.

PREMIUM RESISTANCE

The oxidation chambers, sample holders and covers are made of titanium, a premium material guaranteeing:

- High resistance and excellent chemical compatibility;
- Cost savings by eliminating required consumables.

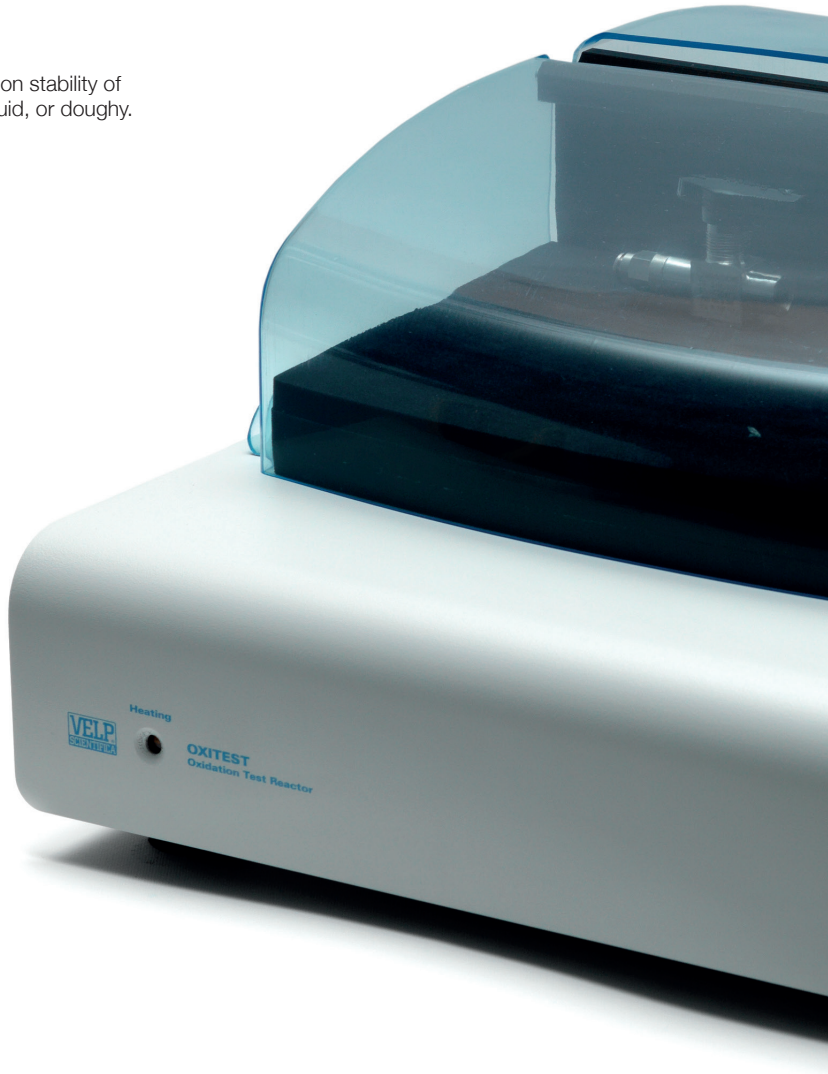
EASE OF USE

The OXITEST is entirely controlled via PC by the powerful OXISoft™ Software.

- All information at a glance;
- Multilingual support;
- Preloaded methods for data analysis.

PRODUCTIVITY

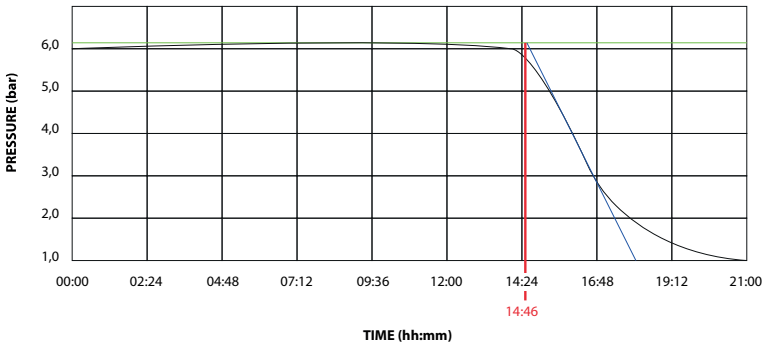
The OXITEST has 2 independent oxidation chambers and further expansion by connecting up to 4 systems to the same PC allowing the simultaneous analysis of up to 8 samples.



AOCS Standard Procedure Cd 12c-16

Accelerated Oxidation Test for the Determination of the Oxidation Stability of Foods, Oils and Fats using the Oxitest Oxidation Test Reactor

INDUCTION PERIOD - IP



Results

Induction Period (IP)	14h 46 min (Graphical method)
Test duration	21h 00 min
Curve 1	Y = -0,003X +6,18
Curve 2	Y = -1,575X +29,43

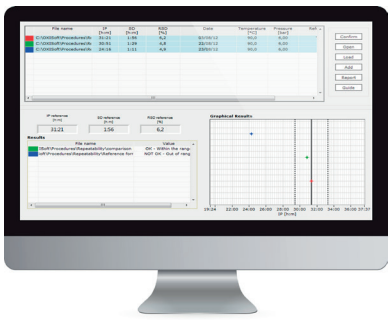
The test allows the sample oxidation curve to be obtained, characterized by an **Induction Period (IP)**. The Induction Period is the time required to reach the starting point of oxidation, corresponding to either a level of detectable rancidity or a sudden change in the rate of oxidation. **The longer the Induction Period, the higher the stability against oxidation over time.** The operator can create **test reports** for a single test or compare different analyses for a better interpretation of the data.

OXISoft™ Software

The OXISoft™ is available in different languages and comes with a pre-installed library of methods related to a wide range of sample types. The operator can use and modify them, or create personalized methods. In order to obtain a visible oxidation flex, the sample tested should contain 2-4% of unsaturated fatty acids. When product degradation is mainly due to the loss of the aromatic components and the oxidation flex is not visible, information on the product oxidation can be achieved by interpreting the slope of the oxidation curve. Many parameters can be investigated, including:

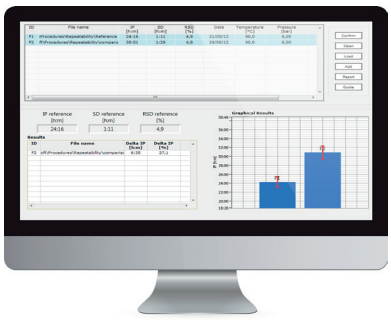
1 REPEATABILITY TEST

A series of tests run on the same sample or standard to verify its IP, to calculate accuracy and repeatability of the data.



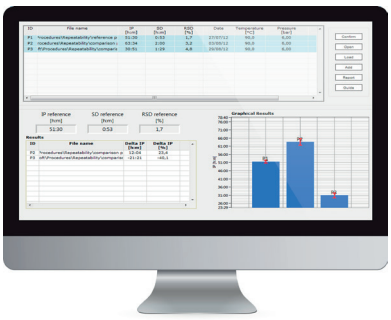
2 FRESHNESS TEST

To verify the quality of different lots, for example of the same raw material, by comparing them. This can be valuable to confirm, for example, whether the product freshness is related to the cost of raw materials.



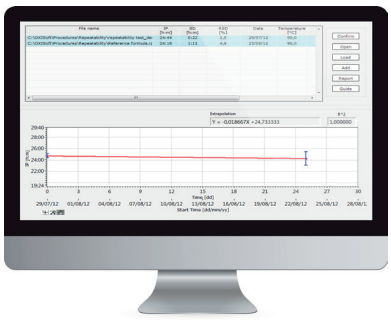
3 FORMULAS COMPARISON

Which ingredients are required to create the most stable formula of a finished product, under the same conditions. By comparing the results, OXISoft™ will be able to automatically distinguish the best formula, easily recognizable by the higher IP.



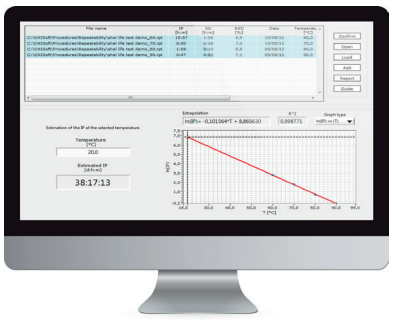
4 PACKAGING COMPARISON

Particularly useful for testing which packaging maintains the product in the freshest condition.



5 IP DURING AGEING

This procedure allows to obtain a prediction of the oxidation stability during a shelf life study by measuring the product at defined time intervals.



6 ESTIMATED SHELF LIFE TEST

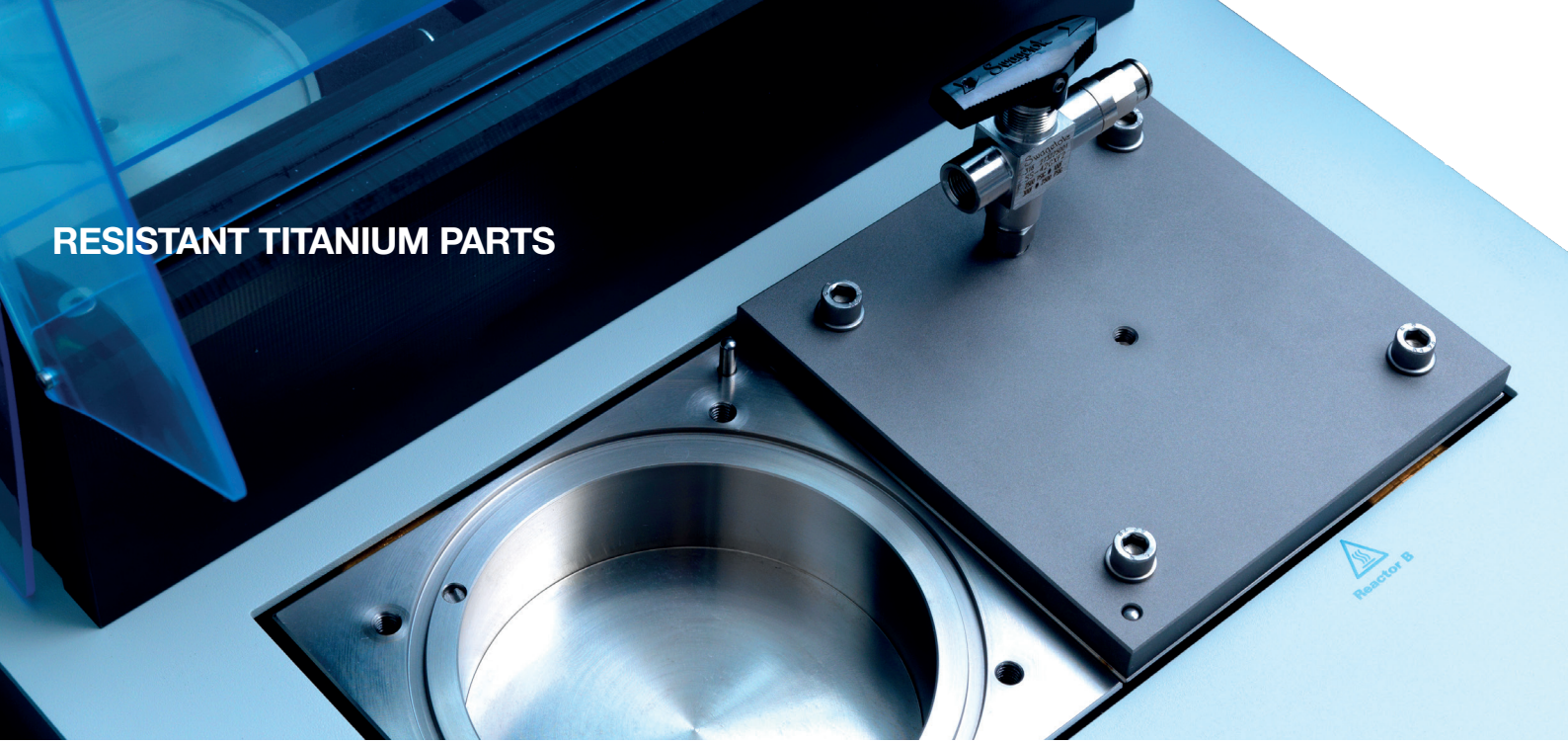
It is possible to have a prediction of oxidation stability for shelf life studies. By following a dedicated procedure and testing the same product at different temperatures, in the case of a linear equation, the operator can extrapolate and estimate the oxidation stability of the sample even at room temperature.

VELP ERMES CONNECTION

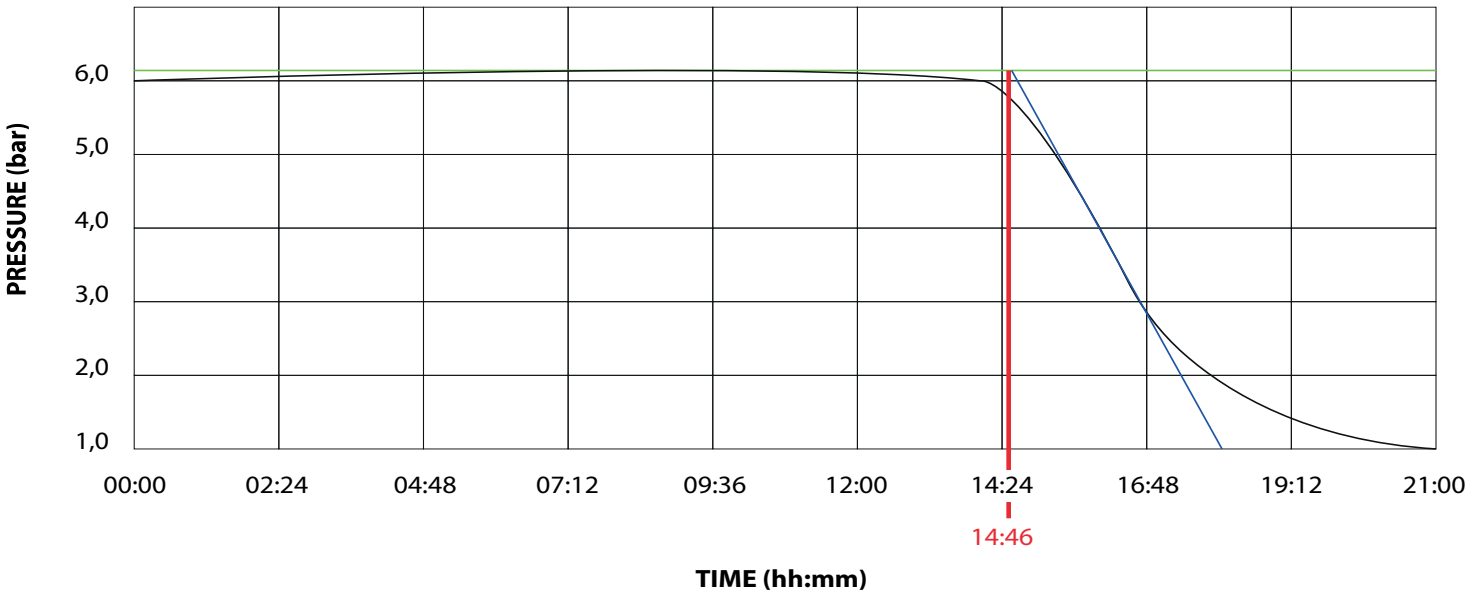
Connect the OXITEST to the exclusive VELP Ermes Cloud Platform to improve your laboratory experience. The VELP Ermes Cloud Platform connection will unburden you from tedious tasks, improving your lab productivity and enhancing service support.

- Enhanced analytical and service support resulting in the highest system uptime
- Real-time monitoring and control of the instrument from PC, smartphone and tablet whenever you want, wherever you are;
- Immediate alert and notification with the possibility to stop the instrument for maximum safety;
- Regular software updates guaranteeing the best performance and new features with just one-click.

ermes enabled



OXISoft™ POWERFUL AND INTUITIVE SOFTWARE



ANALYSIS ON THE WHOLE SAMPLE

INSTRUMENT - CODE

OXITEST	230 V / 50-60 Hz	**F30900248**
OXITEST	115 V / 60 Hz	**F30910248**

SUPPLIED WITH

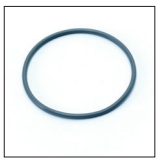
10002948
OXITEST OXISoft™ Software

10003134
USB cable

10001985*
Sample holder

10001984*
Spacer

A00000236
High temperature sealing greaser



10002033
O-ring 3475 viton

E00010012
VELP Ermes
1 Year Connection

* OXITEST is supplied with 6 sample holders and 4 spacers.

OPTIONAL ACCESSORIES

OXITEST IQ/OQ Manual	**A00000242**
Calibration temperature kit for Oxitest	**A00000360**
Calibration temperature kit for Oxitest without thermometer and probe	**A00000376**
High temperature sealing grease	**A00000236**
VELP Ermes 1 Year Connection	**E00010012**
VELP Ermes 3 Years Connection	**E00010036**

FIELDS OF APPLICATION

OXITEST works directly on the whole sample without the need for preliminary fat separation, ensuring representative results on solid, semi-solid and liquid samples, raw and finished products

TECHNICAL DATA

	OXTITEST
NUMBER OF OXIDATION CHAMBERS	2
CAPACITY OF SINGLE CHAMBER	up to 100 ml
MAX DEVIATION FROM THE SET TEMPERATURE	≤ 0.5 °C
REPRODUCIBILITY OF SET TEMPERATURE	≤ ± 0.2 °C
INTERFACE	USB
CONNECTIVITY	Cloud via LAN or Wi-Fi
POWER	900 W
POWER SUPPLY	115 V / 60 Hz - 230 V / 50-60 Hz
WEIGHT	16.5 Kg 36.3 lb
DIMENSION (WxHxD)	365x190x485 mm 14.6x7.6x19.4 in
OVERPRESSURE	Safety valve
OUT-RANGE TEMPERATURE	Visual alarm
DAMAGED PROBE	Visual alarm
TEMPERATURE RANGE	From room temp. to 120 °C
PRESSURE RANGE	0 - 8 bar