

Cooking oil tester

testo 270

- Measurement directly in a deep-fryer
- Sensor embedded in metal and breakage-proof
- Fast & precise measurement value display in %TPM
- Automatic final value recognition (Auto-hold % TPM)
- 2 freely selectable limit values
- Audible and optical alarm
- TopSafe, the waterproof protective cover, guarantees protection class IP65



The testo 270 is a portable measuring instrument for determining the quality and temperature of cooking oil. Thanks to a capacitive sensor at the end of the probe shaft, the polar components in cooking oil are recorded, allowing direct conclusions to be drawn about the degree to which the oil is used up, and thus the quality. Since the testo 270 can be used directly in the deep-fryer, it is extremely quick and provides the measurement results within 20 seconds. Thanks to its user-friendly 3-button

operation, its alarm function, its Auto-hold property and its simple operation, it allows easy and reliable use. With the help of the TopSafe, a transparent plastic cover, the measuring instrument is excellently protected from impact and dirt, and guarantees optimum hygienic conditions. This, added to its high level of accuracy and reproducibility, means the testo 270 provides completely secure measurement results.

The right way to measure.

Important tips on the operation and maintenance of the testo 270



Plastic components may not come into contact with the cooking oil.



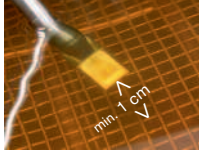
Do not touch the hot probe. Danger of burning!



Remove fried goods before measuring.



Wait until bubbles no longer rise to the surface (approx. 5 min.).



Observe minimum distance of 1 cm to metal objects.

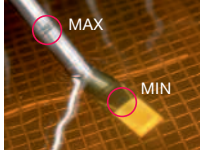


Measure in hot oil (min. 40 °C, max. 190 °C).

Measurement



Switch on the instrument [On/Hold]



Immerse sensor in hot oil. Watch out for the min/max marks!



1. Move sensor in oil (adjustment time approx. 20 sec.)

Auto Hold activated:

- Auto Hold in the display indicates the end of the measurement. If set, an audible signal additionally sounds.
- Final value is fixed.

Auto Hold deactivated:

- When the temperature on the display no longer changes, a stable TPM value has been reached.
- To fix measurement values: briefly press [On/Hold] < 1 sec.

2. To return to the measurement mode: briefly press [On/Hold] < 1 sec.

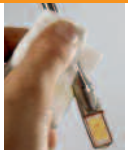


Note down the recorded measurement values.

Care and maintenance Cleaning



Clean instrument with mild detergent. Rinse sensor under running water and dry carefully with a soft paper towel.



The TopSafe and hand strap can be conveniently cleaned in the dishwasher.

Accuracy test

Your specific starting value:

___ %TPM

For a fast and easy instrument test, we recommend you to carry out an accuracy test according to the instruction manual.

If the oil type or the supplier is changed, a new reference value must be determined.



For an accurate instrument test and/or correction, or if measurement values are implausible, we recommend calibration and adjustment in Testo reference oil.

Correct calibration and adjustment.

Important tips on the calibration and adjustment of the testo 270

Preparation



Use only the original Testo reference oil!



The sensor must be completely clean.



Before calibration / adjustment, warm the reference oil to approximately **50 °C** in hot water.

Calibration



- 1. Immediately** after switching on, during the display test, press and hold [**○/Hold**] and [**▲**] for approx. **3 sec.**
- °C or F appears in display.
- Switch through the menu with [**○/Hold**], until **CAL** and **on** or **OFF** appear. Select with [**▲**] or [**▼**].
- Confirm with [**○/Hold**]. **OIL** and **CAL** appear in display.



Remove reference oil from hot water. The oil may not come into contact with the water!



Immerse sensor in reference oil, LEDs light up in orange.



- Begin adjustment procedure with [**○/Hold**].
- LEDs light up in red.
 - Move sensor in oil.



- As soon as LEDs light up in green, measurement is ended.
- Compare value with label value from reference oil bottle:
- Deviation > 1%**
- Adjustment necessary
- Deviation <= 1%**
- Finish calibration without adjustment

Adjustment

Adjustment after calibration



- Set to the TPM value on the reference oil bottle with [**▲**] or [**▼**].
- Confirm with [**○/Hold**].
- rSt** and **on** or **OFF** appear.
- With [**▲**] or [**▼**], select **OFF**.
- Confirm with [**○/Hold**].
- The set value is taken over, instrument switches to measurement mode.

Finishing calibration without adjustment/
Exit calibration menu



- Keep [**○/Hold**] pressed to leave configuration mode.
- Afterwards you get back to the measurement mode.
- You can now take further measurements or switch off the instrument.

Technical data / Accessories

testo 270

Cooking oil tester testo 270 incl. aluminium case, TopSafe, hand strap, reference oil, batteries, adjustment protocol, instruction manual and short instruction manual

Part no. 0563 2700

£ 386.00



Sensor type **Capacitive Testo sensor (%TPM) PTC (°C/°F)**

Meas. range	0,5 to 40,0 %TPM +40 to +200 °C
Accuracy ±1 digit	±2 %TPM (+40 to +190 °C) (at ambient temperature of +25 °C) ±1,5 °C
Resolution	0,5 %TPM 0,5 °C/°F

General technical data

Cooking oil temperature	+40 to +200 °C
Storage temperature	-20 to +70 °C
Operating temperature	0 to +50 °C
Dimensions	Approx. 354 x 50 x 30 mm (incl. TopSafe)
Weight	Approx. 164 g (incl. batteries, TopSafe, hand strap)
Display	LCD, 2-line, display illumination
Battery type	2 x AA
Battery life	approx. 25 h continuous use approx. 500 measurements
Housing material	PA66 GF30% TopSafe as accessory (included)
Alarm function (can be switched off)	2 limit values freely adjustable, 3-colour LED (green, yellow, red), audible alarm when temperature and TPM limit values are violated or at end of measurement (Auto-Hold)
Other features	Response time TPM < 30 sec. (Prerequisite: measurement value is within accuracy limits) Protection class (with TopSafe) IP 65 Warranty 24 months

Accessories for measuring instrument

Part no. £

ISO calibration certificate analysis; Calibration points approx. 3 %TPM and approx. 24 %TPM at 50 °C	0520 0028	138.00
Reference oil for calibrating and adjusting the cooking oil tester testo 270 (1 x 100 ml)	0554 2650	15.86
Aluminium case for testo 270	0516 2650	48.69
TopSafe, indestructible protective cover	0192 0963	17.50
Wrist strap for TopSafe	0192 1279	0.85

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Subject to change without notice.
All prices are net and valid until 31.12.2014.
Shipping costs & VAT not included.



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