

# Lovibond® Colour Measurement Tintometer® Group



## Model Fx

Benchtop spectrophotometer optimised for analysis of edible oils



- Guaranteed site-to-site comparability with accurate and precise spectrophotometry
- Avoid inconsistent readings with controlled sample temperature
- Ensure measurement consistency with easy to clean, removable sample chamber
- Save benchtop space in your QC laboratory with a smaller instrument footprint

Part Number: 169200

### Guaranteed Temperature Consistency

The Lovibond® Model Fx solves the temperature problems associated with consistently measuring the colour of edible oils and addresses the need for quickly delivering accurate results. If samples are not properly prepared before measurement, turbidity caused by the crystallisation of the samples will lead to inconsistent readings. The integrated sample cell heater ensures consistent and uniform temperature throughout the sample resulting in inaccurate measurements.

### Optimised for Production Environment

Reliable and repeatable test results are key to ensuring final product quality and minimise production costs. Speed of analysis is vital for efficient process control. The simplicity of operation helps reduce errors and increase productivity. The instrument's aluminium housing is chemical resistant and intended to withstand the hazards of the production environment.

### Save Costs, Misinterpretation and Potential Disputes

Suppliers and buyers need a common language to communicate and determine product quality. The Lovibond® Model Fx automatically reports key measurements to ensure that data is collected consistently and is reproducible by different users or across multiple sites. Should disagreement occur between supplier and customer, this additional information can help resolve any dispute, saving time and costs.

### Ensures Compliance to Standards

The Lovibond® Model Fx measures colour according to the Lovibond® RYBN, Lovibond® RY, Lovibond® RY10:1, AOCS Tintometer® RY, Chlorophyll & Beta-Carotene scales which are commonly used in the Edible Oil Industry. The accuracy, repeatability and reproducibility of data provided by the instrument allow for tighter colour specifications and greater colour consistency, giving companies the confidence needed to make important decisions regarding high-value commodities and refining operations.

### Industry

Chemical Industry | Food and Beverage Industry | Industries Others | Oil and Gas

### Application

Edible Oils and Fats

### Model Fx

The Lovibond® Model Fx solves the temperature problems associated with consistently measuring the colour of edible oils and addresses the need for quickly delivering accurate results. Misreading from crystallisation can be eliminated with its ability to keep the oil at a constant temperature and report the temperature of the sample.

## Technical Data

|                                 |   |
|---------------------------------|---|
| <b>Applicable Standard</b>      | AOCS Cc 8d-55<br>AOCS Cc 13b-45<br>AOCS Cc 13d-55<br>AOCS Cc 13e-92<br>AOCS Cc 13j-97<br>BS684<br>BS684 Section 2.20<br>Chinese GB/T 22460-2008<br>IS 548 (part 1)-2010<br>ISO 15305<br>ISO 27608<br>MS 252 : Part 16<br>MS 817 : Part 12 |
| <b>Colour Type</b>              | Transparent   |
| <b>Wavelength Range</b>         | 380 - 780 nm  |
| <b>Wavelength Accuracy</b>      | 0.2 nm  |
| <b>Spectral Scope</b>           | < 15 nm   |
| <b>Photometric Range</b>        | 0 - 100 % T   |
| <b>Photometric Linearity</b>    | ± 0.01 % T  |
| <b>Repeatability</b>            | ± 0.5 % T   |
| <b>Stray Light</b>              | < 0.01 % T  |
| <b>Detector</b>                 | Spectrometer  |
| <b>Interfaces</b>               | USB<br>RS 232   |
| <b>Instrument Housing</b>       | Aluminium   |
| <b>Portability</b>              | Benchtop  |
| <b>Touchscreen</b>              | No  |
| <b>Input Voltage</b>            | 110 VAC, 250 VAC, 60 W (24 V)   |
| <b>Environmental Conditions</b> | Temperature: +5°C - 40°C ; Humidity: Up To 90 % non condensing  |
| <b>Stock Conditions</b>         | Temperature: -20°C - 85°C ; Humidity: Up To 90 % non condensing   |
| <b>Compliance</b>               | CE  |
| <b>Languages User Interface</b> | English, German, French, Spanish, Italian, Portuguese, Russian, Japanese, Chinese   |
| <b>Dimensions</b>               | 301 x 152 x 331 mm  |

## Accessories

| Title                            | Part Number |
|----------------------------------|-------------|
| W600/B/10 Borosilicate Glass     | 655960      |
| W600/B/25 Borosilicate Glass     | 655990      |
| W600/B/33 Borosilicate Glass     | 656010      |
| W600/B/40 Borosilicate Glass     | 656020      |
| W600/B/100 Borosilicate Glass    | 656030      |
| W600/B/1/16" Borosilicate Glass  | 656044      |
| W600/B/1/8" Borosilicate Glass   | 656054      |
| W600/B/1/4" Borosilicate Glass   | 656064      |
| W600/B/1/2" Borosilicate Glass   | 656074      |
| W600/B/1" Borosilicate Glass     | 656080      |
| W600/B/2" Borosilicate Glass     | 656090      |
| W600/B/3" Borosilicate Glass     | 656104      |
| W600/B/4" Borosilicate Glass     | 656114      |
| W600/B/5" Borosilicate Glass     | 656124      |
| W600/B/5 1/4" Borosilicate Glass | 656130      |
| W600/B/50 Borosilicate Glass     | 656200      |

## Delivery Scope

- Model Fx instrument
- External power supply
- Set of 3 power leads (UK, European and United States)
- Quick start guide (hard copy)
- USB memory stick (containing the manuals)
- Certificate of conformity
- Conformance filter
- W600/B/1" cell (Borosilicate, 1" path length)
- W600/B/5¼" cell (Borosilicate, 5¼" path length)

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