

# Lovibond® Colour Measurement Tintometer® Group



## Model Fx

Accurate Measurement of the Colour of Edible Oils at the Correct Temperature



- Avoid misreading from crystallisation
- Measures Lovibond® RYBN, Lovibond RY10:1, AOCS RY, Chlorophyll & b-Carotene
- Allows the Measurement of Hot Samples (Integrated Heater)
- Ensured Compliance to Standards

Part Number: 169200

### Avoid Misreading from Oil Crystallisation

Many edible oils are unique in their fractionation – resulting in different melting points for different applications.

This makes the sample temperature, and sample heating to maintain the temperature during measurement, more important since temperature and colour go hand in hand.

Temperature and duration times must be accurately set to ensure heating to the full liquid phase for measurement, while bearing in mind that overheating can cause the oil to turn darker. Microwave heating is faster but may not result in uniform temperatures of the oil. The integrated heater also allows the measurement of hot samples and keeps the samples at their ideal temperature.

### Save Costs, Misinterpretation and Potential Disputes

The Model Fx also reports the temperature at which the sample was measured. Should any disagreement occur between supplier and customer, this additional unique functionality can help dissolve any dispute, thereby saving time and costs. Currently, non-repetitive analysis across refineries is still an issue.

### Ensures You Are Compliant to Standards

The Model Fx measures according to the Lovibond® RYBN, Lovibond RY10:1, AOCS RY, Chlorophyll & b-Carotene scales which are most commonly used in the Edible Oil Industry. Being able to report according to these standards means that you are compliant to the internationally accepted methods.

### Ideal for Continual Use in Edible Oil Refineries

The Model Fx is housed in robust, chemically-resistant aluminium casing (100% recyclable and sustainable).

The sealed unit and removable sample chamber are easy to clean of any accidental oil spillages to avoid any impact on accuracy.

## 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 problem of measuring the colour of edible oils with its unique ability to not only keep the oil at a constant temperature but also to measure and report on the temperature of the sample, avoiding any misreading from crystallisation. You can now measure edible oils in their natural and correct state without any risk of the sample's temperature affecting the results. The Model Fx measures according to the following standards: Lovibond® RYBN, Lovibond RY10:1, AOCS RY, Chlorophyll & b-Carotene

## Technical Data

<b>Applicable Standard</b>	AOCS Cc 8d-55 AOCS Cc 13b-45 AOCS Cc 13d-55 AOCS Cc 13e-92 AOCS Cc 13j-97 BS684 BS684 Section 2.20 Chinese GB/T 22460-2008 ISO 15305
<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>Stray Light</b>	< 0.01 % T
<b>Interfaces</b>	USB RS 232
<b>Detector</b>	Spectrometer
<b>Instrument Housing</b>	Aluminium
<b>Repeatability</b>	± 0.5 % T
<b>Portability</b>	Benchtop
<b>Touchscreen</b>	No
<b>Input Voltage</b>	Универсальный через внешний источник питания
<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
<b>Weight</b>	5.16 kg

## 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)

## 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

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