

Lovibond® Colour Measurement

Tintometer® Group



PFXeo Spectrophotometer

- Automatic Colour Measurement for the Edible Oils Market
- Measures Lovibond® RYBN, Lovibond RY10:1 & AOCS RY
- Ensures Compliance to Standards
- Allows the Measurement of Hot Samples (Integrated Heater)
- Reports Oil's Sample Temperature to Avoid Misreadings from Crystallisation
- Simple to Operate with Integrated Help Menus
- Robust, Chemically Resistant Housing for Continual Use in Edible Oil Refineries
- Aluminium Casing - 100% Recyclable and Sustainable
- Sealed Unit & Removable Sample Chamber (Oil Spillages will Not Impact Accuracy)
- New Technology Giving High Resolution, Repeatability, Reliability and Accuracy



Tintometer India Private Limited

B91, APIE, Balanagar, Sanathnagar(Post), Hyderabad-500 018, Telangana, India.
Fax: +91 40 46479922, Toll free number: 18001023891/92

www.lovibond.com
www.lovibondcolour.in

The increasing trend of oil usage worldwide and the resultant effect on price fluctuations is driving the need for more accurate analysis within the supply chain. Non-repetitive analysis across refineries, however, is still an issue.

Many edible oils are also 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.

Further, due to the high melt temperature, certain oils shorten very quickly: as soon as the temperature is removed, they start to solidify, visually turning the sample increasingly whiter.



“The PFXeo 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 misreadings from crystallization.”

Technical Specifications	
Measurement Method	Spectrometer
Lamp Source	Tungsten Halogen
Wavelength Range	380 - 780nm
Photometric Measuring Range	0 - 100% T
Wavelength Accuracy	0.2nm
Spectral Bandwidth	< 15nm
Photometric Linearity	± 0.01% T
Wavelength Selection	Software *
Stray Light	< 0.01% T
Repeatability	± 0.5% T
Detectors	Spectrometer

Physical & Environmental Specifications	
Enclosure	Aluminium
Dimensions	301mm w x 152mm h x 331mm d
Weight	5.16Kg
Environmental Conditions (operating)	Humidity: Up To 90% non condensing Temperature: +5°C to +40°C
Environmental Conditions (storage)	Humidity: Up To 90% non condensing Temperature: -20°C to +85°C

Additional Technical Data	
Power	190 - 240V
Interface	USB, RS232
Certification	CE
Languages	English, French, German, Italian, Spanish, Portuguese, Russian, Japanese, Chinese

Standards Compliance	
Lovibond® RYBN	AOCS Cc 13e, AOCS Cc 13j, ISO 15305, MS 252: Part 16, IP17 Method A
Lovibond RY10:1	Chinese GB/T 22460-2008 Standard for adopted from the ISO 15305-1998
AOCS RY	AOCS Cc 13b-45 the Wesson Method, AOCS Cc 8d-55, AOCS Cc 13j-97

Order Code	Product
169200	Lovibond® PFXeo Spectrophotometer



The Tintometer Ltd
T: +44 (0)1980 664800
F: +44 (0)1980 625412

Tintometer Inc
T: +1 941 758 8671
F: +1 941 727 9654

Tintometer GmbH
T: +49 (0) 231/94510-0
F: +49 (0) 231/94510-20

Tintometer - China
T: +86 10 8525 1111 Ext 330
F: +86 10 85251001

Tintometer - South East Asia
T: +603 3325 2286
F: +603 3325 2287

Tintometer India Pvt. Ltd
T: +91 (0) 40 4647 9911
Toll Free: 1800 102 3891

indiaoffice@tintometer.com

Lovibond® and Tintometer® are Registered Trade Marks of The Tintometer® Group. All translations and transliterations of LOVIBOND® & TINTOMETER® are asserted as Trade Marks of The Tintometer Limited. Registered Office: Lovibond House, UK. Registered in England No. 45024.

Errors and Omissions Excepted - Content Subject to alterations without notice.

www.lovibond.com