

# Lovibond® Colour Measurement Tintometer® Group



## Gardner Comparator (AF228)

Gardner Scale, 3-Field Visual Measurement



- Compact, Visual Measurement System for Single Scale Measurements
- Self-Contained, Includes Everything Needed to Measure the Scale
- Easy-To-Use, Fast & Accurate
- 3-Field Viewing for Optimum Accuracy

Part Number: 345010

### Accurate Determination of the Gardner Scale

The AF 228 incorporates 18 glass standards which make up the scale in a pair of discs

### Fast Determination of Colour Value

You can directly compare the sample with the colour values for quick results.

### Easy to Achieve Optimum Colour Accuracy

The advantage of a 3-section field of view is that the sample and two consecutive glasses on the colour scale are viewed simultaneously, making it easier and quicker for you to achieve the ideal colour match.

### Facilitates Tolerance Level Setting

For rapid colour grading within predetermined colour limits, the glass standards can be set to the two limiting colours so that it is easy to check that the sample is within tolerance.

### Guaranteed Constant Lighting Conditions

In the instruments, the tungsten halogen light source is colour corrected to CIE standard illuminant C\*, which guarantees constant lighting conditions for colour grading.

### Compliance to Standards

Each Comparator 3000 is supplied with the correct cells for the appropriate path length determined by the standard.

## Industry

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

## Application

Chemicals | Edible Oils and Fats | Petroleum Oils and Waxes

## Gardner Comparator (AF228)

A 3-field instrument for visually determining the colour of petroleum oils & waxes, chemicals and edible oils & fats samples according to the Gardner scale by direct comparison with coloured glass filters.

## Technical Data

**Applicable Standard** ASTM D1544  
ASTM D6166

**Colour Type** Transparent

**Portability** Benchtop

## Delivery Scope

- **Comparator 3000**
- **2 x Glass Discs**
  - 4/30-1 (left hand) 1, 3, 5, 7, 9, 11, 13, 15, 17
  - 4/30-2 (right hand) 2, 4, 6, 8, 10, 12, 14, 16, 18
- **2 x Test Tubes 10.65mm diameter**

### Tintometer GmbH

Lovibond® Water Testing  
Schleefstraße 8-12  
44287 Dortmund  
Tel.: +49 (0)231/94510-0  
Fax: +49 (0)231/94510-30  
sales@lovibond.com  
www.lovibond.com  
Germany

### The Tintometer Limited

Lovibond House  
Sun Rise Way  
Amesbury, SP4 7GR  
Tel.: +44 (0)1980 664800  
Fax: +44 (0)1980 625412  
sales@lovibond.uk  
www.lovibond.com  
UK

### Tintometer China

Room 1001, China Life Tower  
16 Chaoyangmenwai Avenue,  
Beijing, 100020  
Tel.: +86 10 85251111 App. 330  
Fax: +86 10 85251001  
chinaoffice@tintometer.com  
www.lovibond.com  
China

### Tintometer South East Asia

Unit B-3-12, BBT One Boulevard,  
Lebuh Nilam 2, Bandar Bukit Tinggi,  
Klang, 41200, Selangor D.E  
Tel.: +60 (0)3 3325 2285/6  
Fax: +60 (0)3 3325 2287  
lovibond.asia@tintometer.com  
www.lovibond.com  
Malaysia

### Tintometer Brazil

Caixa Postal: 271  
CEP: 13201-970  
Jundiaí – SP  
Tel.: +55 (11) 3230-6410  
sales@tintometer.com.br  
www.lovibond.com.br  
Brazil

### Tintometer Inc.

6456 Parkland Drive  
Sarasota, FL 34243  
Tel: 941.756.6410  
Fax: 941.727.9654  
sales@lovibond.us  
www.lovibond.com  
USA

### Tintometer India Pvt. Ltd.

Door No: 7-2-C-14, 2<sup>nd</sup>, 3<sup>rd</sup> & 4<sup>th</sup> Floor  
Sanathnagar Industrial Estate,  
Hyderabad, 500018  
Telangana  
Tel: +91 (0) 40 23883300  
Toll Free: 1 800 599 3891/ 3892  
indiaoffice@lovibond.in  
www.lovibondwater.in  
India

### Tintometer Spain

Postbox: 24047  
08080 Barcelona  
Tel.: +34 661 606 770  
sales@tintometer.es  
www.lovibond.com  
Spain

Technical changes without notice  
Printed in Germany

Lovibond® and Tintometer® are Trademarks of the Tintometer Group of Companies