

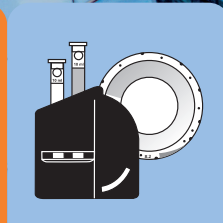
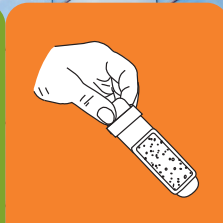
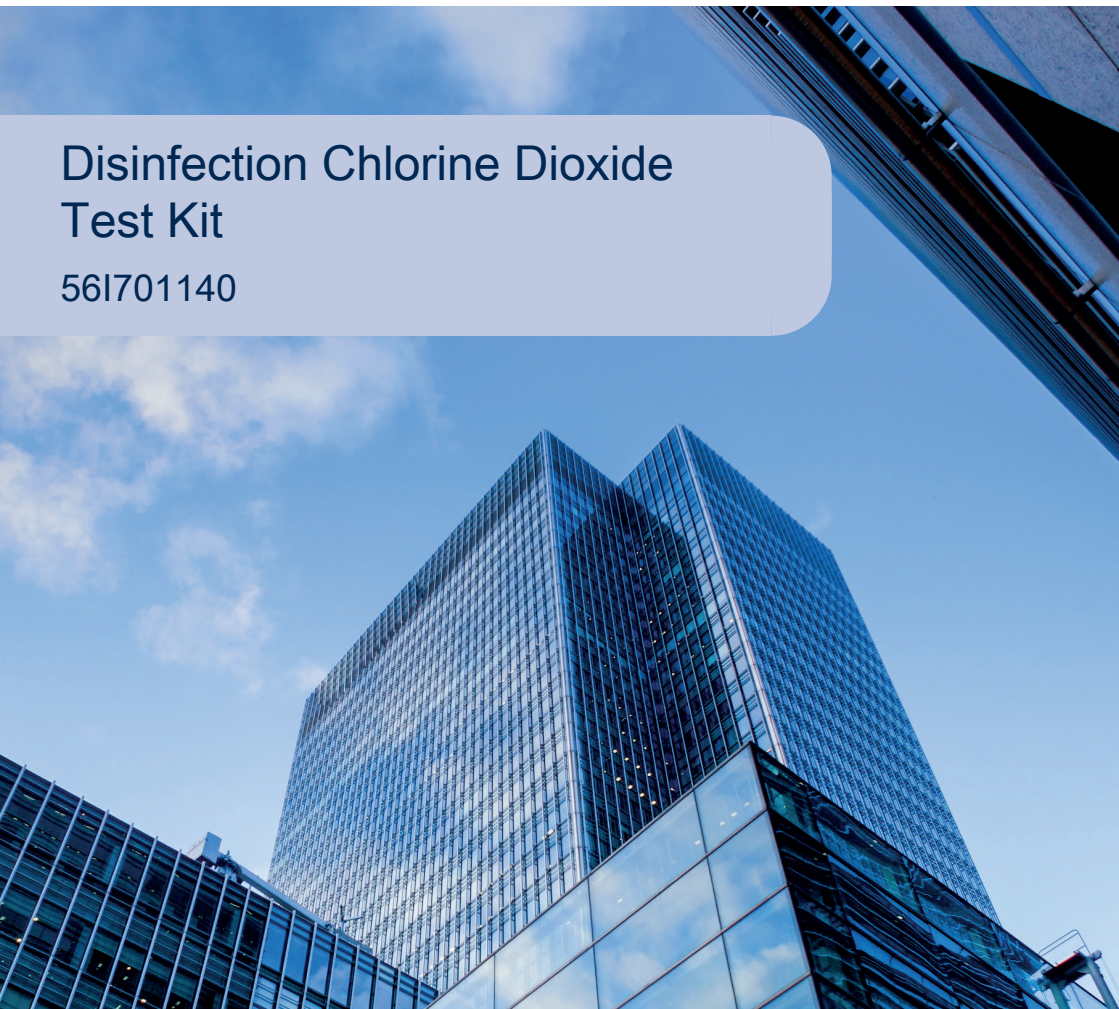
Lovibond® Water Testing

Tintometer® Group



Disinfection Chlorine Dioxide Test Kit

561701140



Disinfection Chlorine Dioxide Test Kit

Cooling towers, evaporative condensers, make up tanks and associated systems should be cleaned and disinfected every six months.

Hot and cold water services may also require disinfection if:

1. Routine inspection shows it to be necessary.
2. If the system has been substantially altered leading to possible contamination.
3. During or following a legionella outbreak.

This test kit provides the water treatment engineer with suitable testing equipment to measure water conditions throughout the disinfection process.

EN

Tests included are as follows:

pH test strips

It is essential to monitor water pH in the storage tank throughout the disinfection process. The effectiveness of chlorine as a biocide is pH critical so careful pH control is necessary to maintain biocide efficiency.

pH Measurement

The effectiveness of the oxidising biocide is pH dependant. Correct pH control during chlorination is essential to ensure maximum biocide efficiency.

Simply take a sample of water to be tested and dip the test strip into the sample. Remove and Compare to colour chart provided.

Note:

1. Further instructions can be found with the corresponding product.

Chlorine Dioxide**561700230****0.16 - 600 mg/L ClO₂**

EN

Material

Reagents	Packaging Unit	Part Number
Chlorine Dioxide Buffer CDO1	65 mL	56L033965
Chlorine Dioxide Titrant CDO2	65 mL	56L150265
Chlorine Dioxide Titrant CDO2A	65 mL	56L150165
Chlorine Dioxide Titrant CDO3	65 mL	56L150065

The following accessories are required.

Accessories	Packaging Unit	Part Number
Syringe, plastic, 20 mL	1 pc.	56A006501
Titration jar with cap, plastic, 250 mL	1 pc.	56A010501

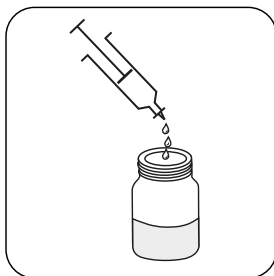
Notes

1. Colours may vary depending on sample and test conditions.
2. Acidic samples must be neutralised prior to testing.

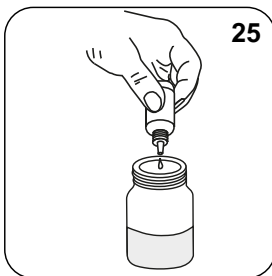
Sampling

Select the sample volume from the table according to the expected measuring range and read off the factor to calculate the result.

Expected Range	Titrant used	Sample Size	Factor
0.16-0.48 mg/L	Chlorine Dioxide Titrant CDO2A	250 mL	0.02
0.2-0.6 mg/L	Chlorine Dioxide Titrant CDO2A	200 mL	0.025
0.4-1.2 mg/L	Chlorine Dioxide Titrant CDO2A	100 mL	0.05
0.8-2.4 mg/L	Chlorine Dioxide Titrant CDO2A	50 mL	0.1
1.0-3.0 mg/L	Chlorine Dioxide Titrant CDO2A	40 mL	0.125
2.0-6.0 mg/L	Chlorine Dioxide Titrant CDO2A	20 mL	0.25
4.0-12 mg/L	Chlorine Dioxide Titrant CDO2A	10 mL	0.5
0.3-1.5 mg/L	Chlorine Dioxide Titrant CDO2	250 mL	0.04
0.4-1.2 mg/L	Chlorine Dioxide Titrant CDO2	200 mL	0.05
0.8-2.4 mg/L	Chlorine Dioxide Titrant CDO2	100 mL	0.1
2.0-6.0 mg/L	Chlorine Dioxide Titrant CDO2	40 mL	0.25
4.0-12.0 mg/l	Chlorine Dioxide Titrant CDO2	20 mL	0.5
8.0-24.0 mg/L	Chlorine Dioxide Titrant CDO2	10 mL	1
20-60 mg/L	Chlorine Dioxide Titrant CDO3	50 mL	2
50-150 mg/L	Chlorine Dioxide Titrant CDO3	20 mL	5
100-300 mg/L	Chlorine Dioxide Titrant CDO3	10 mL	10
200-600 mg/L	Chlorine Dioxide Titrant CDO3	5 mL	20



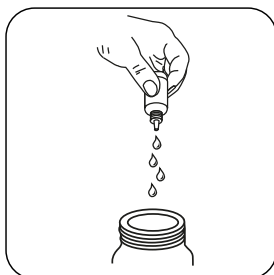
Attention! Select the appropriate sample volume according to the instructions in the chapter Sampling.



Add **25 drops Chlorine Dioxide Buffer CDO1**.

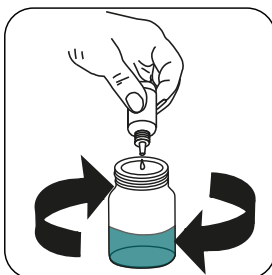


Swirl to mix.



Attention! Record the number of drops that will be added.

Note: Make sure to swirl the jar after adding each drop!



Add **Chlorine Dioxide Titrant CDO2A or Chlorine Dioxide Titrant CDO2 or Chlorine Dioxide Titrant CDO3** drop by drop to the sample until colouration turns from **colourless/pale yellow to blue/green**.

Calculate test result: Chlorine Dioxide (as ClO_2) mg/L = Number of drops x factor (see table)

pH

Strips pH 0-14

0 - 14 pH

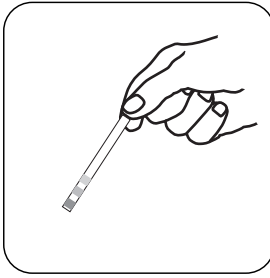
EN

Material

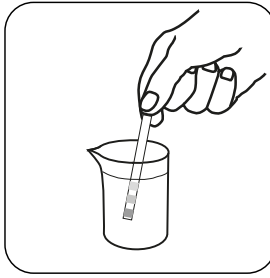
Reagents	Packaging Unit	Part Number
pH Strips pH 0-14 Plastic	1 pc.	56S001290

Notes

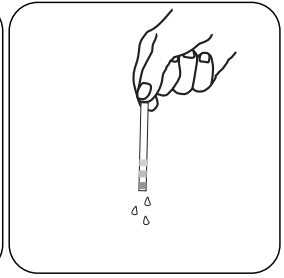
1. When handling test strips, make sure to touch them with your fingers only at the end of the test strip. The pads must not come into contact with the fingers.
2. The test strips must be stored in the closed packaging.



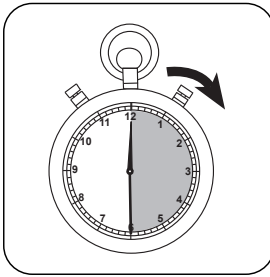
Remove one test strip.
Hold the end of the test strip between index finger and thumb.



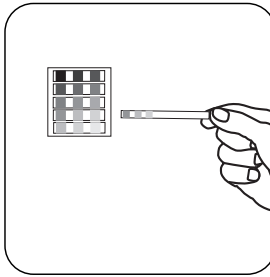
Dip the test strip into the solution to be tested so that all pads are completely immersed.



Shake off excess liquid.



Compare the colour of the test strip within 30 seconds with the colour chart provided.



Read the result from the colour scale.

Tintometer GmbH

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

Tintometer South East Asia

Unit B-3-12, BBT One Boulevard,
Lebuhr 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 India Pvt. Ltd.

Door No: 7-2-C-14, 2nd, 3rd & 4th 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

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 Brazil

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

Tintometer Spain

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

Tintometer China

Room 1001, China Life Tower
16 Chaoyangmenwai Avenue,
Beijing, 100020
Customer Care China Tel.: 4009021628
Tel.: +86 10 85251111 App. 330
Fax: +86 10 85251001
chinaoffice@tintometer.com
www.lovibond.com
China

Tintometer Inc.

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



Technical changes without notice
Printed in Germany 08/23

No.: 561701140

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

