

# Lovibond® Water Testing

## Tintometer® Group



**Mini Catalogue | Industrial Water**

[www.lovibond.com](http://www.lovibond.com)



# THE COMPANY



## The product range comprises:

- Electronic instruments providing results in digital format with data storage and computer linkage.
- High quality visual comparators offering precision colour comparison.
- Accurately formulated chemical reagents in either tablet, powder or liquid form.
- Convenient, easy to use microbiological test equipment and media.
- Test parameters ranging from Acidity to Zinc; pH; Temperature; BOD; COD; Turbidity; Biocides; TVC; *E.coli*; and many more.

All products are available stand-alone or as an integrated set, housed in one of the comprehensive Lovibond® engineered kits.

## The Lovibond® product range is being used to ensure water quality throughout the world.

The company has always specialised in scientific and technological products which make water analysis simple and, most importantly, dependable and reliable. The trade-name Lovibond® is synonymous with quality, accuracy and reliability. It is known in over 130 countries, where the company offers innovative products for the precise determination of different types of water:

- Drinking water
- Waste water
- Surface and ground water
- Untreated water and effluents
- Cooling water
- Boiler water
- Swimming pools & spas



## THE COMPANY

“*Water is the basis of life. Water analysis and water purification are fundamental to the quality of life.*”

Cay-Peter Voss



The Lovibond® range presents an accurate and flexible approach to routine water analysis that is simple to use, yet gives reliable results in factories, laboratories and in the field.

Tests use either Lovibond® tablet reagents, with a guaranteed shelf life up to 10 years, VARIO powder reagents or liquid reagents, manufactured to rigorous standards in the Lovibond® factories. As the only reagent producer in the world to offer a complete range of reagent forms, the company is unbiased in its advice of which reagent type best suits the need of the application.

Commitment to quality is fundamental to the company's philosophy. All Lovibond® products are manufactured according to the company's DIN ISO 9001:2008 certification and comply with international standards such as ISO 7393/2 and ISO 15705:2002. All the instruments and chemicals conform to the relevant international safety regulations and EC directives.

# INDUSTRIAL & PROCESS WATER ANALYSIS

## Application specific test kits for the water industry

### Specialist Test Kits (Portable Laboratories)

- All-in-one package
- Compact/rugged
- High accuracy & performance

### Operator Test Kits

- Easy operation
- Quick and reliable
- Routine analysis

### Support Equipment

- Dipslides & incubator
- Glycol refractometer
- C.O.D and B.O.D.

### Specialized Methods

- Biocides and sanitizers
- Corrosion/scale inhibitors
- Silt density index (SDI)



# BUILD YOUR OWN TEST KIT

## Create bespoke test kits for your niche requirement

### Step 1

Choose titration test

Digital titrator  
or  
Drop tests

### Step 2

Pick colorimetric tests

Comparator  
or  
Photometer

### Step 3

Add electrochemistry

pH meter  
Temperature meter  
Conductivity/TDS meter

### Step 4

Select a carry case  
from a range of strong,  
purpose built units  
with document wallet,  
wheels etc...



# BUILDING SERVICES

## Critical system control parameters in standard kit formats

### Cooling Water

- MD100 photometer for cooling water testing
- Open evaporative cooling system kits
- Closed cooling loop monitoring

### Boiler Water

- MD100 photometer for boiler water testing
- Oxygen scavengers
- Corrosion/scale control

### *Legionella* Control

- Biocide & bacteria monitoring
- System control
- Minimise risk

### Hot and Cold Water Services

- Cleaning and disinfection
- pH/temperature
- Biocides & bacteria



# PROCESS CONTROL

## Monitor process equipment chemicals for maximum efficiency

### Food and Beverage

- CIP testing
- Alkali & Q.A.C products
- Cleaners and disinfectants

### Industrial Laundry

- Stain and soil control
- Sour and starch tests
- Bleach, peroxide & alkalinity

### Cutting Fluids

- Optimise performance
- Control bacteria
- Reduce risks

### Anti-Freeze Refractometer

- Quick, simple & robust
- A few drops of sample
- M.E.G and M.P.G scales



# WATER CONDITIONING

## RO membrane and resin tests for reduced maintenance and regeneration

### RO Systems

- Silt density index (SDI) for resin fouling
- Manganese and iron monitoring

### Softener Systems

- Resin: Capacity  
Fouling  
Conversion
- Raw and exchanged water hardness

### Point of Sale

- Softener demonstration kit
- Hardness checker
- Alkalinity testers



## Trend bacteria analysis to demonstrate system control

### Incubator & Dipslides

- General microbial detection (T.V.C)
- Aerobic and anaerobic
- Quick and easy

### Coliforms/*E.coli* & *Enterococci*

- Potable water
- Effluent control/detection
- Approved methods

### *Legionella* Test Kit

- Rapid detection of SG.1
- Indicative test for outbreak identification
- Results in minutes

### Microbiological Control

- Non-oxidising biocides (Isothiazolinone)
- Chlorine and bromine
- Peroxide and ozone



# POTABLE & WASTE WATER

## Rapid Analysis in Harsh Environments

### Potable (Water Check) Test Kit

- Key quality indicators
- To WHO guidelines
- Rural, non-laboratory based application

### Marine Potable Water Test Kit

- Complete screen for On-board conditions
- MLC (2006) compliant
- Bacteria & biocide tests

## Tools for Waste Water Treatment

### Turbidity Meters

- White light (ISO7027)
- Infra red (EPA 180.1)
- 90° scattered light detection

### Flocculation Testing

- Compact and portable
- 4 place with back-light
- Variable speed & timer



# RAPID TESTS & REAGENTS

Drop Tests



Test Strips



Comparator Tests



Titration Tests



## PRECISE REAGENT CHEMISTRY IN ALL FORMS



Tablet



Sachet



Liquid



Cartridge

# PORTABLE PHOTOMETERS



## MD 100 Photometer

- Compact and waterproof
- Single or multi-test options
- Multi-parameter boiler and cooling water versions
- Tablet, powder and liquid reagents
- Storage for historical reporting
- High quality interference filters
- 4 x AAA batteries (5000 tests)

## MD 600 / MD 610 (Bluetooth®) Photometer

- Over 120 pre-programmed tests
- Automatic wavelength selection
- Integrated PTSA (fluorescence) option
- Bluetooth® communication
- Store up to 1000 data sets
- Graphical display
- Waterproof (IP68)
- Built-in user selectable language



Bluetooth® is a wireless technology subject to regional approval. The use of the MD 610 with Bluetooth® is currently only permitted within the EU, the USA, and in Canada. The use of the MD 610 will also be possible in other regions in the future. For current regions and further information, visit: [www.ljoybond.com/bluetooth](http://www.ljoybond.com/bluetooth). Regions in which the MD 610 with Bluetooth® can currently be used (status: 07/2015): within the EU (according R&TTE Directive 1999/5/EC), USA (according to FCC part 15, comprised in FCC ID Q008T113), Canada (comprised in IC 5123A-BGTBLE113).

# ELECTROCHEMISTRY

## A range of quality devices for water chemistry on the move

### SD Series (Hand Held)

- pH, ORP,  $\mu\text{S}$ , TDS, Salt
- Waterproof (IP67)
- Easy-to-use, backlit display

### SensoDirect 110 (Portable)

- High accuracy
- Protective armour
- pH, conductivity and TDS (salt) instruments

### SensoDirect 150 (Portable)

- Multi-parameter
- pH/redox, D.O., conductivity/TDS
- Real time data logger

### SensoDirect 300 (Portable)

- PC interface (with GLP)
- High resolution and accuracy
- Easy-to-read, large screen



Determination

| Determination                      | Rapid Tests |           |                  |                    |                | Photometric Tests |                       |               |   |
|------------------------------------|-------------|-----------|------------------|--------------------|----------------|-------------------|-----------------------|---------------|---|
|                                    | Test Strip  | Drop Test | Digital Titrator | Checkit Comparator | Lovibond 2000+ | MD 100            | MD 100 Boiler/Cooling | MD 600/MD 610 |   |
| Acidity                            |             | x         | x v              |                    |                |                   |                       | x             |   |
| M Alkalinity                       |             | x         | x v              |                    |                |                   | x                     | x             |   |
| P Alkalinity                       |             | x         | x v              |                    |                |                   |                       | x             |   |
| OH (Caustic) Alkalinity            |             | x         | x v              |                    |                |                   |                       |               |   |
| Aluminium                          |             |           |                  | x                  | x              |                   | b & c                 | x v           |   |
| Amines                             |             |           |                  |                    | x              |                   |                       |               |   |
| Ammonia                            |             |           |                  | x                  | x              | x                 |                       | x v           |   |
| Ammonia, Free                      |             |           |                  |                    | x              |                   |                       | x v           |   |
| Anionic                            |             | x         |                  |                    |                |                   |                       |               |   |
| Arsenic                            | x           |           |                  |                    |                |                   |                       |               |   |
| Bacteria, total aerobic            |             |           |                  |                    |                |                   |                       |               | x |
| Bacteria, yeasts/moulds            |             |           |                  |                    |                |                   |                       |               | x |
| Bacteria, Enterococci              |             |           |                  |                    |                |                   |                       |               | x |
| Bacteria, <i>E.coli</i> /coliforms |             |           |                  |                    |                |                   |                       |               | x |
| Bacteria, Pseudomonas              |             |           |                  |                    |                |                   |                       |               | x |
| Bardac 22                          |             | x         |                  |                    |                |                   |                       |               |   |
| BOD <sub>5</sub>                   |             |           |                  |                    |                |                   |                       |               | x |
| Boron                              |             |           |                  |                    | x              |                   |                       | x             |   |
| Brix (Refractive Index)            |             |           |                  |                    |                |                   |                       |               | x |
| Bromine                            |             |           |                  | x                  |                | x                 | c                     | x             |   |
| Bronopol                           |             | x         |                  |                    | x              |                   |                       |               |   |
| Carbon Dioxide                     |             | x         | v                |                    |                |                   |                       |               |   |
| Conductivity                       |             |           |                  |                    |                |                   |                       |               | x |
| Cyanide                            |             |           |                  |                    | x              |                   |                       | x             |   |
| Cyanuric Acid                      |             |           |                  |                    |                |                   |                       | x             |   |
| Chelant, total                     |             | x         | x                |                    |                |                   |                       |               |   |
| Chloride                           |             | x         | x v              |                    | x              |                   | b                     | x             |   |
| Chlorine, Free                     |             | x         |                  | x                  | x              | x                 | c                     | x v           |   |
| Chlorine (F+T)                     |             |           |                  | x                  | x              | x                 | c                     | x v           |   |
| Chlorine (Total Av)                | x           | x         | x                | x                  | x              | x                 | c                     | x             |   |
| Chlorine Dioxide                   | x           | x         |                  | x                  | x              | x                 | c                     | x             |   |
| Chromium                           |             |           |                  |                    | x              |                   |                       | x             |   |
| COD                                |             |           |                  |                    |                | x                 |                       | x v           | x |
| Cobalt                             |             |           |                  |                    | x              |                   |                       |               |   |
| Copper                             | x           |           |                  | x                  | x              | x                 | b & c                 | x v           |   |
| Cutting Fluid                      |             |           |                  |                    |                |                   |                       |               | x |
| DBNPA                              |             | x         |                  |                    | x              |                   |                       |               |   |
| DEHA                               |             |           |                  | x                  | x              |                   | b                     | x             |   |
| EDTA, Free                         |             | x         | x                |                    |                |                   |                       |               |   |
| Fluoride                           |             |           |                  | x                  | x              | x                 |                       | x             |   |
| Glycol                             |             |           |                  |                    |                |                   |                       |               | x |
| Hazen                              |             |           |                  |                    | x              | x                 |                       | x             |   |
| Hardness, Calcium                  |             | x         | x v              |                    |                |                   |                       | x             |   |

Determination

| Determination            | Rapid Tests |           |                  |                    |                | Photometric Tests |                       |               |   |
|--------------------------|-------------|-----------|------------------|--------------------|----------------|-------------------|-----------------------|---------------|---|
|                          | Test Strip  | Drop Test | Digital Titrator | Checkit Comparator | Lovibond 2000+ | MD 100            | MD 100 Boiler/Cooling | MD 600/MD 610 |   |
| Hardness, Total          | x           | x         | x v              |                    |                |                   |                       | x             |   |
| Hydrazine                |             |           |                  |                    | x              |                   | b                     | x v           |   |
| Hydrogen Peroxide        | x           | x         |                  |                    | x              |                   |                       | x             |   |
| Iodine                   |             | x         |                  |                    | x              |                   |                       | x             |   |
| Iron                     | x           |           |                  | x                  | x              | x                 | b & c                 | x v           |   |
| Isothiazolinone          |             | x         |                  |                    | x              |                   |                       |               |   |
| Legionella               |             |           |                  |                    |                |                   |                       |               | x |
| Manganese                |             |           |                  | x                  | x              | x                 |                       | x v           |   |
| MBTC                     |             | x         |                  |                    | x              |                   |                       |               |   |
| Molybdate                |             | x         |                  | x                  | x              | x                 | c                     | x v           |   |
| Monochloramine           |             |           |                  |                    | x              | x                 |                       | x v           |   |
| Nickel                   |             |           |                  |                    | x              |                   |                       | x             |   |
| Nitrate                  | x           |           |                  | x                  | x              |                   |                       | x v           |   |
| Nitrite                  | x           | x         | x v              | x                  | x              |                   |                       | x v           |   |
| Nitrogen, Total          |             |           |                  |                    |                |                   |                       | x v           |   |
| Oxidant, total (TO)      |             | x         |                  |                    |                |                   |                       |               |   |
| Oxygen, active           |             | x         |                  |                    |                |                   |                       | x             |   |
| Oxygen, dissolved        |             |           |                  |                    |                |                   | b                     | x             |   |
| Ozone                    |             |           |                  | x                  | x              |                   | c                     | x             |   |
| Peracetic Acid           | x           | x         | x                |                    |                |                   |                       |               |   |
| pH                       | x           | x         |                  | x                  | x              | x                 |                       | x             |   |
| Phosphate                |             |           |                  | x                  | x              | x                 | b                     | x v           |   |
| Phosphonate              |             | x         | x v              |                    |                |                   |                       | x v           |   |
| Polyacrylate             |             | x         |                  |                    |                |                   | b & c                 | x             |   |
| PTSA                     |             |           |                  |                    |                |                   |                       | x             |   |
| Q.A.C.'s                 |             | x         |                  |                    | x              |                   |                       |               |   |
| Redox (ORP)              |             |           |                  |                    |                |                   |                       |               | x |
| Silica                   |             |           |                  | x                  | x              | x                 | b                     | x v           |   |
| Silt Density Index (SDI) |             |           |                  |                    |                |                   |                       |               | x |
| Sodium Hypochlorite      |             | x         | x                | x                  |                | x                 |                       | x             |   |
| Solids, suspended        |             |           |                  |                    |                |                   |                       | x             | x |
| Solids, dissolved (TDS)  |             |           |                  |                    |                |                   |                       |               | x |
| Starch                   |             | x         |                  |                    |                |                   |                       |               |   |
| Sulphate                 |             |           |                  |                    |                |                   | c                     | x v           |   |
| Sulphide                 |             |           |                  |                    | x              |                   |                       | x             |   |
| Sulphite                 | x           | x         | x v              | x                  | x              |                   |                       | x             |   |
| Tannin                   |             | x         |                  |                    | x              |                   |                       |               |   |
| Temperature              |             |           |                  |                    |                |                   |                       |               | x |
| THPS                     |             | x         |                  |                    |                |                   |                       |               |   |
| Triazoles                |             |           |                  |                    |                |                   | c                     | x             |   |
| Turbidity                |             |           |                  |                    |                |                   |                       | x             | x |
| Zinc, free               |             | x         | x                | x                  | x              |                   | c                     | x             |   |
| Zinc, free and total     |             | x         | x v              |                    |                |                   |                       |               |   |

v - VARIO test pack available ; x - Colour card with tablet/liquid reagents

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