

Industrial Test Systems, Inc.

Innovators of Quality Testing

sensafe.com

itseurope.co.uk

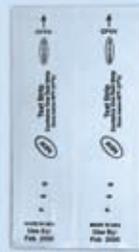
poolcheckonline.com



USEPA Approved
SenSafe™
Free Chlorine
Water Check



ETV(USEPA)
Verified Quick™
Arsenic Test Kits
for Water



Private Label
Foil Packing



eXact™ Strip
DPD
Free Chlorine Test



ECO-Check
5 in 1 Test Strip for
Nitrate
Nitrite
pH
Total Alkalinity
Total Hardness



LEADQuick™
Lead in Water, Soil
and Paint tests



Environmentally Friendly

(Green) Technology



The future of Water Testing is here ... introducing the eXact line of photometers



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North America Information:

BUSINESS HOURS:

Monday-Friday
8:00 AM TO 4:30 PM EST

TELEPHONE ORDERS:

(800) 861-9712
(803) 329-9712

FAX ORDERS (24/7):

(803) 329-9743

INTERNET ORDERS (24/7):

weborders@sensafe.com

TERMS:

Call for Details

DELIVERY:

Depending on product availability,
within 3-4 weeks, regardless of method.

PHYSICAL ADDRESS:

Industrial Test Systems, Inc.
1875 Langston Street
Rock Hill, SC 29730-7418

 sensafe



PARAMETER	PAGE	PARAMETER	PAGE
Alkalinity, Total	6	Manganese	13
Ammonia	6	Mercury	15
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Bromine	7	Ozone	15
Chloride	7	Permanganate	16
Chlorine	9	Peroxide	16
Chlorine (DPD)	8	Pesticide	16
Chlorine Dioxide	8	pH	17
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Copper	11	Protein (as Albumin)	17
Cyanide	11	Salt (as NaCl)	18
Cyanuric Acid	23	Silver	18
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Iodine	13		
Iron	13		
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European Ordering Information:

BUSINESS HOURS:

8:00 AM TO 4:30 PM GST

TELEPHONE ORDERS:

+44 (0) 1722 329502

FAX ORDERS (24/7):

+44 (0) 1722 329880

INTERNET ORDERS (24/7):

sales@sensafe.com

TERMS:

Call for Details

DELIVERY:

Depending on product availability, within
3-4 weeks, regardless of shipping method.

PHYSICAL ADDRESS:

ITS EUROPE, LTD
The UK Centre for Homeland Security
Chilmark
Salisbury
Wiltshire United Kingdom
SP3 5DU
UK

Industrial Test Systems, Inc.

Innovators of Water Quality Testing



For over twenty years, Industrial Test Systems, Inc., has developed and manufactured water quality test strips and test kits for the Heavy Duty Coolant, Education, Food & Beverage, Homeland Security, Laboratory, Medical, Pond & Aquarium, Pool & Spa, Sanitation (Daycare), Water & Wastewater and Well Water industries. Combining accuracy, sensitivity, affordability, and ease-of-use, our WaterWorks™, Quick™, eXact® and SenSafe™ test strips have revolutionized the way water testing is done.

We manufacture tests that are sensitive, accurate, fast and easy for the end user. More importantly, our tests are environmentally friendly using safe chemistry. We are proud to be the first test strip manufacturer to receive USEPA approval for our SenSafe™ Free Chlorine Water Check test strip as a screening method for evaluating drinking water. Similar efforts resulted in five Arsenic tests and Cyanide being evaluated through the EPA/ETV Verification program.

We strive to provide rapid and courteous service to customers who have questions, comments, or complaints. We value these contacts - they help us continue to provide the quality products customers have come to expect from ITS.

ITS Innovations:

- Over 70 tests and proprietary chemistries many covered by our U.S. Patents
- The first and only USEPA approved test strip. (page 9)
- The first field Lead (Pb⁺²) Test. (page 14)
- Top rated Arsenic Test kits used world-wide. ETV performance verified – faster and more sensitive. (page 5)
- The first Cyanide Reagent Strip test that is fast and sensitive - ETV performance verified.
- The aperture strip (SenSafe™) with up to fifty times more sensitivity than a normal test strip.
- EPA compliant tests; Free Chlorine (DPD-1), Total Chlorine (DPD-3), Total Chlorine (DPD-4), Chlorine Dioxide, Sulfate, Coliform and e.Coli Presence-Absence test.
- eXact® Micro 7+ photometer (page 22), an affordable water-resistant meter designed to give fast water chemistry results for drinking water and pool/spa.
- Invented the eXact® Strip that eliminates the need for liquid/powder/tablet tests, measuring, mixing and crushing of tablets. Safe and cleaner to run, many of these tests work in all competitors instruments (HACH, LaMotte)



Dear Water Analyst:

Enclosed you will find Industrial Test Systems' new 2009-2010 Catalog, filled with simple and cost-effective solutions for all of your water analysis needs. ITS offers an extensive line of test strip-based kits and instrumentation designed to semi-quantitatively and quantitatively measure more than 50 critical parameters, in detection levels from parts-per-billion to percent concentration. Our products are used daily by thousands of satisfied industry professionals around the world.

Our revolutionary photometers, like our new patented eXact™ Micro 7+ will change the future of water testing.

If you need further assistance, have a special application, or would like to place an order, please give us a call at 1-800-861-9712.

Ivars Jaunakais
President and Chief Analytical Chemist





MANAGEMENT TEAM



Lea Jaunakais

Vice President



Angelo Perry

Vice President of Operations



George Bailey

Sales Manager



Mike McBride

Marketing Manager



Howard Ray

Manager of Research and Development

Our Products

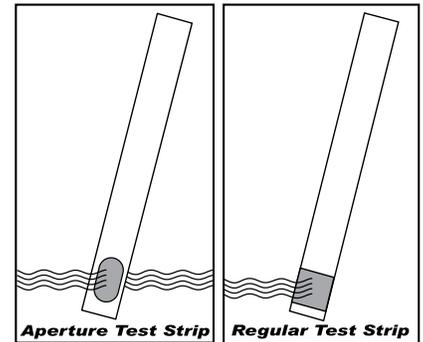
SenSafe™

How Our US Patented SenSafe™ Strips Work:



Combining sensitivity with safety is how SenSafe™ test strips got their name. What makes our product unique is our patented aperture (window) technology. This unique design allows for the

lowest sensitivity possible on a test strip. SenSafe™ test strips, when dipped in a water sample with a back and forth motion, allow the aqueous solution to pass through the thin color indicator chemical impregnated membrane. Coupled with this design is another feature that is unique: the SenSafe™ test strips only contains 1/100th the amount of chemical compared to most commonly used 10 mL colorimeter tests.



WaterWorks™

How Our WaterWorks™ Strips Work:



WaterWorks™ brand test strips and test kits provide accurate, rapid results at an affordable cost. Designed using cutting-edge chemistries and state-of-the-art manufacturing processes, WaterWorks™ test strips and test kits replace outdated testing kits that are both labor and cost intensive. Organizations that have implemented the use of WaterWorks™ brand test strips and test kits have seen drastic reductions in testing costs and increases in process feedback.

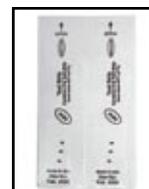
eXact® Strip

How Our eXact® Strips Work:



Now there is an alternative to powder pillows, powder packets, tablets, glass ampoules, and liquid systems: eXact® Strips have one or more test pads containing reagents for colorimetric detection of ions in water samples. By dipping a eXact® strip into a supplied vial, the reagent is released into the water sample. Discard the strip and match the color in the vial to a color chart. For even greater accuracy, the color sample can be read in a colorimeter, like the eXact® Micro 7+ shown (part number 486691), for analysis.

What is a Packet?



Packets are a convenient way to package individual test strips. Providing total protection for the strip, foil packets are an ideal solution when you are working in conditions where the risk of exposure to extremely high humidity and moisture is possible. In a low humidity environment each strip is sealed in its own individual packet to protect it from exposure to moisture. Another benefit to foil packets is the size. Small enough to fit in your pocket, foil packets are an ideal solution when testing out in the field. Because of the packet's features, they are ideal to send to customers as a promotion or troubleshooting tool; saving time and money compared to a service call.

Arsenic (As⁺³ / As⁺⁵)

Arsenic Compliance Testing



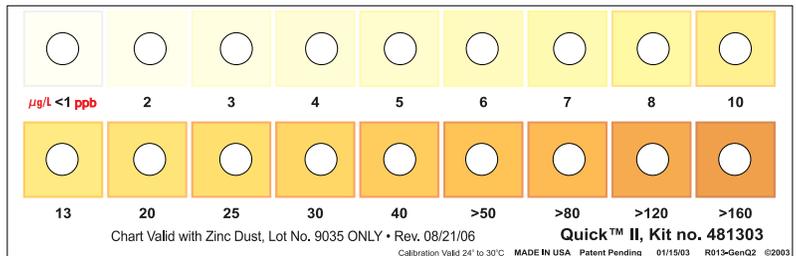
- Winner of The 2003 WEF Innovative Technology Award
- 99.8% Correlation to ICP-MS Reference Method
- USEPA/ETV verified technology (www.epa.gov/etv)
- Used by international aid organizations
- No technical experience required
- Rapid results in 14 minutes
- Safe, non-hazardous reagents
- Approved testing method
- Arizona point of use compliance program manual



481396

Quick™ Arsenic tests were developed with considerations for safety, sensitivity, ease-of-use, and speed. Safety has not been compromised for convenience in the Arsenic Quick™ family of arsenic field test kits. All reagents are in powder form and have been carefully selected to minimize the hazards associated with conventional arsenic testing. All components needed to accurately detect and measure arsenic are included in a portable ready-to-use kit.

Our easy to follow test procedure requires only three reagents. They are clearly labeled and color coded to make arsenic testing error free. A colorimetric test strip is used to make accurate arsenic measurement. The matching Easy Read™ color chart is printed with extra large color blocks for quick and accurate color matching.



SAMPLE CARD

The patented test kits have many formats available to meet your inorganic arsenic (+3/ +5) detection requirements. The Quick™ and Quick™ II lines are now available in mini-kits with five tests, ideal for remediation performance and an inexpensive way to evaluate our kits.

Custom and Private Label kits are available.

Quick™ Arsenic Test Kits Available:

US Patent # 6696300

PRODUCT NAME (PART NUMBER)	NO. OF TESTS	OPTIMUM RANGE* ppb (μg/L)	TYPICAL COLOR CHART DETECTION LEVELS ppb (μg/L)	TYPICAL ACCURACY** OF DUPLICATES USING QUICK™ ARSENIC SCAN
Arsenic Quick™ Mini Kit (481396-5) <i>(Can also be used for soil analysis.)</i>	5	10 to 200	0, 5, 10, 20, 60, 100, 300, 500, >500, >>500	+/-18 ppb or +/-30%
Arsenic Quick™ II Mini Kit (481303-5)	5	3 to 20	<1, 2, 3, 4, 5, 6, 7, 8, 10, 13, 20, 25, 30, 40, >50, >80, >120, >160	+/-1.2 ppb or +/-16%
Arsenic Low Range Quick™ II Mini Kit (481301-5)	5	1 to 10	<0.5, 1, 1.5, 2, 3, 4, 5, 6, 7, 8, 12, >20, >30, >50	+/-0.8 ppb or +/-14%
Arsenic Ultra-Low Quick™ II Mini Kit (481300-5)	5	0.5 to 6	0, 0.3, 0.7, 1.0, 1.5, 2, 2.5, 3, 3.5, 4, 5, 6, 8, 10, 13, 20, >20	+/-0.4 ppb or +/-12%
Arsenic Quick™ Kit (481396) <i>(Can also be used for soil analysis.)</i>	100	10 to 200	5, 10, 20, 30, 40, 50, 60, 80, 100, 150, 200, 250, 300, 400, 500, >500	+/-18 ppb or +/-30%
Arsenic Low Range Quick™ (481297-1)	50	7 to 80	<2, 4, 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 100, >150, >300	+/-8 ppb or +/-25%
Arsenic Quick™ II (481303)	50	3 to 20	<1, 2, 3, 4, 5, 6, 7, 8, 10, 13, 20, 25, 30, 40, >50, >80, >120, >160	+/-1.2 ppb or +/-16%
Arsenic Low Range Quick™ II (481301)	50	1 to 10	<0.5, 1, 1.5, 2, 3, 4, 5, 6, 7, 8, 12, >20, >30, >50	+/-0.8 ppb or +/-14%
Arsenic Ultra-Low Quick™ II (481300)	25	0.5 to 6	0, 0.3, 0.7, 1.0, 1.5, 2, 2.5, 3, 3.5, 4, 5, 6, 8, 10, 13, 20, >20	+/-0.4 ppb or +/-12%
Quick™ Arsenic Scan Instrument (481305)	1 meter	N/A	0.01 to >1.00 color density ppb (μg/L) (as low as 0.2 ppb (μg/L) arsenic)	(see above)

Information on the performance characteristics of Quick™ can be found at www.epa.gov/etv, or call ITS at 1-800-861-9712 for a copy of the ETV verification report. The use of the ETV® Name or Logo does not imply approval or certification of this product nor does it make any explicit or implied warranties or guarantees as to product performance.

*Range can be expanded by diluting the sample with Arsenic-free water.
**As with any test, actual results will fall within a range around the actual value. The Typical Accuracy listed is from data generated by a technician in our lab using the Quick™ Arsenic Scan instrument measuring interference-free aqueous arsenic standards. Kit expected accuracy is the larger of the two values listed. (Example using Quick™: If the mean is 40 ppb, then the typical accuracy is +/-18 ppb which is larger than +/-12 ppb (40 ppb X 30%).

Arsenic (As⁺³ / As⁺⁵)



481303

"...Quick™ II kits will be most applicable for water utilities having a raw water arsenic concentration <100 µg/L ... Additionally, this field kit is also appropriate for contracted vendors responsible for monitoring the influent and effluent arsenic concentrations of POU devices."

Spear, J. Mitchell. "Evaluation of arsenic field test kits for drinking water analysis." Journal AWWA 98(2006):

"...Test kit and laboratory measurements were within one category of each other in 99% of samples (n=134) for Quick™ Arsenic Kit."

Steinmaus, M. Craig. "Evaluation of Two New Arsenic Field Test Kits Capable of Detecting Arsenic Water Concentrations Close to 10µg/L." Environmental Science & Technology Vol. 40, No 10(2006):

"...The Quick™ test kit provided reasonably accurate results on the types of tap water samples analyzed. The test method does not require that the operator have highly-specialized training. The test method and accuracy would be appropriate for quick field testing results; no complex, breakable apparatus is required."

Sabo, Mark Dr., Director, Catawba Analytical Research Laboratory, Catawba College (2002):

Arsenic Quick™ Mini Kits (5-Tests)



481300-5



481301-5



481303-5



481396-5



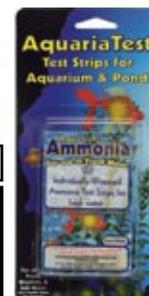
What is ETV test verified performance?

The Environmental Technology Verification (ETV) Program verifies the performance of innovative technologies that have the potential to improve protection of human health and the environment. ETV accelerates the entrance of new environmental technologies into the domestic and international market places. ITS is proud to be an active participant in the program.

Ammonia (NH₃ / NH₄⁺) Reagent Strip

- Ideal for fresh water aquariums and ponds
- Detects as low as 0.2 ppm (mg/L)
- Rapid results in 4 minutes
- Safe, non-hazardous chemistry
- Uses salicylate method

481342



DESCRIPTION - REAGENT STRIPS	PRODUCT #	DETECTION LEVELS
AquariaTest 1 - Ammonia - Fresh, 10 pkts of 1	481342	0, 0.2, 1.0, 3.0, 5.0 ppm (mg/L)
AquariaTest 1 - Ammonia - Fresh, btl of 25	483343	0, 0.2, 1.0, 3.0, 5.0 ppm (mg/L)

Salt water testing requires the use of a water conditioning reagent

Bacteria

NEW! EZ Coliform Cult - MUG

- Total coliform presence/absence test with *E. coli* confirmation method
- *E. coli* confirmed by fluorescence or Kovacs' reagent
- XGAL/MUG test
- 100 CFU/mL sensitivity
- Safe, non-hazardous chemistry
- Results in 24/48 hours

487197



USEPA COMPLIANT



Bacteria Check

- Total coliform presence/absence test
- Follows the APHA, Standard Methods, 20th edition, 9221 d, screening test for total coliform in potable water
- Results in 48 hours at room temperature
- Ideal test for prescreening water prior to official lab testing
- Safe, non-hazardous chemistry
- 1 CFU/100mL sensitivity
- Test in 120 mL sterilized bottle

481197

USEPA COMPLIANT

DESCRIPTION	PRODUCT #	DETECTION LEVELS
Bacteria Check, 12 test for bacteria	481197	48 hour presence/absence of total coliforms for 100mL sample
Bacteria Check Kit, 2 of each & 1 bacteria	481198	Includes 481197 coliform test, Nitrite/Nitrate, Ammonia
Quick™ 18-Minute Bacteria Test	487999	18 minute presence/absence bacteria test at 1000 cfu/mL
Bacteria Growth Check, 30 tests	481195-30	Growth detection of fastidious micro-organisms on a test strip
EZ Coliform Cult - MUG, 12 tests	487197	24 hour coliform presence/absence with <i>E. coli</i> confirmation in 100mL sample

Bromine (Br₂) SenSafe™ Strip

SAMPLE LABEL

SenSafe™ Bromine Check™
Part Number 480001 Contains 50 Test Strips

METHOD A: Dip one test strip into a 10ml water sample for 5 seconds with a constant, gentle back and forth motion. Remove the strip and shake once, briskly, to remove excess water. Wait 30 seconds, then match with Method A colors. Complete color matching within 15 seconds.

METHOD B: Dip one test strip into a 10ml water sample for 30 seconds with a constant, gentle back and forth motion. Remove the strip and shake once, briskly, to remove excess water. Wait 30 seconds, then match with Method B colors. Complete color matching within 15 seconds.

PPM (mg/L) color chart:
0.0 (yellow), 0.05 (light green), 0.10 (green), 0.25 (medium green), 0.50 (dark green), 1.0 (olive), 2.0 (dark olive), 3.0 (brownish green), 4.0 (brown), 5.0 (black)

US Pat. No. 6541269
FOR BEST RESULTS, PLEASE FOLLOW INSTRUCTIONS CAREFULLY.
INTERFERENCES: Bromamines, Chlorine, Iodine, and Ozone will give a similar color reaction.

- U.S. patented test #6541269
- Ideal test for determining correct amount of sanitizer present
- Uses two methods for optional detection levels
- SenSafe™ test strip



480001

DESCRIPTION - TEST STRIPS	PRODUCT #	DETECTION LEVELS
SenSafe™ Bromine Check, btl of 50	480001	Method A 0, 0.5, 1.0, 2.0, 3.0, 4.0, 5.0 ppm (mg/L) SEE SAMPLE LABEL Method B 0.00, 0.05, 0.10, 0.25, 0.50, 0.75 ppm (mg/L)
DPD-1 eXact® Strip, btl of 50	481647	0.0 to 6 ppm (mg/L) Please see page 8 for more information.
DPD-1 eXact® Strip, 100 pkts of 1	481101	0.0 to 6 ppm (mg/L) Please see page 8 for more information.

Chloride Test Strip

SAMPLE LABEL

WaterWorks™ Chloride Check
Part Number: 481027 Contains 50 Strips

TEST PROCEDURE: Collect water sample in an 8 ounce container (200-250 mL). Dip one test strip into water sample for 10 seconds with constant, gentle back and forth motion. Remove strip and shake once briskly to remove excess sample. Wait 30 seconds and match with closest color on color chart.

NOTE: National Secondary Drinking Water Regulations set forth by EPA recommend a chloride level of 250 PPM or less.

PPM (mg/L) color chart:
0 (white), 50 (light purple), 100 (medium purple), 250 (dark purple), 500 (black)

IMPORTANT: Store in dry, cool (below 90°F) place and away from direct sunlight. Use the strips by date on bottle cap.

For Technical Assistance, Call: 1-803-329-0162 www.sensafe.com

R077-CIC
MADE IN USA
© 2007 Industrial Test Systems, Inc., Rock Hill, SC USA

- Used to verify EPA Secondary Drinking Water Standard of 250 ppm for chloride in drinking water
- Dip and read test strip
- Safe, non-hazardous chemistry



481027

DESCRIPTION - TEST STRIPS	PRODUCT #	DETECTION LEVELS
WaterWorks™ Chloride Check, btl of 50	481027	0, 50, 100, 250, 500 ppm (mg/L) SEE SAMPLE LABEL
WaterWorks™ Chloride Check, 30 pkts of 1	481027	0, 50, 100, 250, 500 ppm (mg/L)

SAMPLE LABEL

Chlorine Dioxide (ClO₂) Test Strip

WaterWorks™ Chlorine Dioxide Check
Part Number 480031 Contains 50 Test Strips

TEST PROCEDURE:

- Dip one strip into the water sample for 2 seconds without motion.
- Remove the strip and shake once, briskly, to remove excess water. Wait 30 seconds.
- Using the color chart, match the strip pad to the closest color match. Complete matching within 10 seconds.

IMPORTANT: Store in cool (below 30°C) dry place and away from direct sunlight. Use the strips by date on bottle cap.

For Technical Assistance, Call: 1-803-329-0162

0.5 PPM (mg/L)
2
5
10
25
50
100

- Accurate results in under a minute
- No chromium or manganese interferences
- No MSDS or mechanical reader required
- Safe, non-hazardous chemistry
- Non-carcinogenic indicator

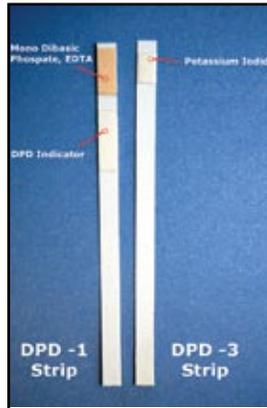
480031

DESCRIPTION - TEST STRIPS	PRODUCT #	DETECTION LEVELS
SenSafe™ Chlorine Dioxide LR, btl of 50	481028	Method A 0, 0.1, 0.2, 0.4, 0.6, 0.8, 1, 1.2, 1.4, 1.6 ppm (mg/L) Method B 0.00, 0.05, 0.1, 0.15, 0.2, 0.3 ppm (mg/L)
SenSafe™ Chlorine Dioxide LR, 30 pkts of 1	481128	Method A 0, 0.1, 0.2, 0.4, 0.6, 0.8, 1, 1.2, 1.4, 1.6 ppm (mg/L) Method B 0.00, 0.05, 0.1, 0.15, 0.2, 0.3 ppm (mg/L)
Chlorine Dioxide, btl of 50	480031	0.5, 2, 5, 10, 25, 50, 100 ppm (mg/L) SEE SAMPLE LABEL
<i>Order Glycine reagent to eliminate chlorine interference</i>		
DPD-1 eXact® Strip, btl of 50	481647	0.0 to 6 ppm (mg/L) Please see page 8 for more information.
DPD-1 eXact® Strip, 100 pkts of 1	481101	0.0 to 6 ppm (mg/L) Please see page 8 for more information.

Chlorine (DPD Reagent Delivery Device For 10 mL Samples)

eXact® Strip DPD-1, DPD-3, DPD-4
A convenient and fast delivery system for DPD

- Free Chlorine and Total Chlorine Testing
- DPD testing as specified in 4500-CL G BS6068, Section 2.26, and ISO 7393/2
- No undissolved solids when testing cold (5°C) water
- 20 second test methodology
- Replaces tablets, powders and liquids
- Can be used in food processing areas
- Works in 10 mL DPD meters/kits
Meters from manufacturers such as Hach®, LaMotte®, Orion®, and WTW
- Replacement for HACH® DPD Free Chlorine 10 mL #2105569
- Replacement for HACH® DPD Total Chlorine 10 mL #2105669



**USEPA
DIN, ISO
COMPLIANT**
FOR FREE & TOTAL
CHLORINE
CHLORINE DIOXIDE

DPD-1 10 mL Tests for Free Chlorine, Chlorine Dioxide, Bromine, Iodine and Permanganate		
DESCRIPTION - TEST STRIPS	PRODUCT #	DETECTION LEVELS
DPD-1 eXact® Strip, btl of 50	481647	0.0 to 6 ppm (mg/L)
DPD-1 eXact® Strip, 100 pkts of 1	484101	0.0 to 6 ppm (mg/L)
DPD-1 eXact® Strip, 600 pkts of 1	484647-600	0.0 to 6 ppm (mg/L) (only 10¢ a test)
DPD-3 10 mL Tests for Total Chlorine and Ozone (must be used with DPD-1 sample to measure Total Chlorine)		
DESCRIPTION - TEST STRIPS	PRODUCT #	DETECTION LEVELS
DPD-3 eXact® Strip, btl of 50	481648	0.0 to 6 ppm (mg/L) (use with DPD-1)
DPD-3 eXact® Strip, 100 pkts of 1	484103	0.0 to 6 ppm (mg/L) (use with DPD-1)
DPD-3 eXact® Strip, 600 pkts of 1	484648-600	0.0 to 6 ppm (mg/L) (use with DPD-1; only 6¢ a test)
DPD-4 10 mL Tests for Total Chlorine and Ozone		
DESCRIPTION - TEST STRIPS	PRODUCT #	DETECTION LEVELS
DPD-4 eXact® Strip, btl of 50	481670	0.0 to 6 ppm (mg/L)
DPD-4 eXact® Strip, 100 pkts of 1	484104	0.0 to 6 ppm (mg/L)
DPD-4 eXact® Strip, 600 pkts of 1	481670-600	0.0 to 6 ppm (mg/L) (only 10¢ a test)

Chlorine (TMB SenSafe™ Strips)

Chlorine Compliance Testing

SenSafe™ Free Chlorine Water Check (part# 481026)

The first test strip approved by the USEPA



481026

- Ideal for field/on-site drinking water compliance monitoring
- Published in the 2007 Federal Register (vol 72, no 47, Monday, March 12, 2007 p. 11204, ITS method D99-003).
- No instrument required
- Safe and non-hazardous
- 0.05 ppm (mg/L) detection
- Uses patented TMB indicator pad - U.S. patent # 5491094
- Allowed by the USDA for use in food processing facilities.
- No indicator bleach out even at 500 ppm (mg/L) Chlorine
- No monochloramine interferences
- Approved for use by most states
- Ideal for measuring cloudy and turbid water samples with negligible effect on test results

SenSafe™ Free Chlorine Water Check Benefits...

Accuracy - Because there are no chemicals to mix and no instrumentation to calibrate, SenSafe™ Free Chlorine Water Check minimizes user error.

Time - No set up is required so results are available in a fraction of the time required by other methods.

Cost - SenSafe™ Free Chlorine Water Check saves materials and time, and is less expensive (cost per test) than other methods.

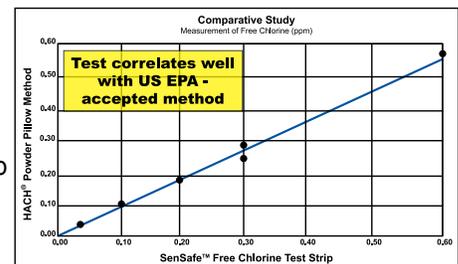
Safety - SenSafe™ Free Chlorine Water Check is classified by OSHA to be non-hazardous because of the small amount of chemicals involved.

Ease - Professional accuracy for non-technical user with no special training needed.

Transport - Small and portable - makes it ideal for field testing.

A Comparative Study for Free Chlorine Measurement:

This study was undertaken to confirm the correlation of SenSafe™ Free Chlorine Aperture Strip (481026) to HACH Company part # 21055-69 DPD Free Chlorine Reagent Method. All values are the mean of two results. Free Chlorine Aperture Strip results were collected by utilizing a 30 second dip time method. If the test color fell between two color blocks, the value was estimated. The data was statistically analyzed and plotted. A 0.9973 correlation was achieved when HACH Company DPD Free Chlorine Method results were compared with SenSafe™ Free Chlorine Aperture Strip results.



SenSafe™ Free Chlorine Water Check Test Procedure (Part No. 481026)

DIP

00:00:20

20 Sec

WAIT

00:00:20

20 Sec

READ

5 Sec

SenSafe™ Free Chlorine Water Check

This product may be used for compliance monitoring. See www.sensafe.com for ITS method D99-003 (Revision 3, Nov. 21, 2003) in EPA format. For compliance monitoring purposes the test strip must be used as described in method D99-003.

For technical support, call 1-800-328-4162, email info@sensafe.com, or visit www.sensafe.com

USE BY DATE ON CAP

MCL = Maximum Contaminant Level
US PATENT 5491094
US PATENT 6541269
Part Number 481026
Contains 50 Test Strips

Test Procedure:
Dip one (1) test strip into a 50 ml (about 2 oz.) sample for **twenty (20) seconds** with constant, gentle back-and-forth motion that maximizes the liquid flow through the indicator pad (aperture). Remove and shake strip once briskly to remove excess water. **Wait 20 seconds** and match with the best color to determine Parts per Million (PPM) or mg/Liter concentration of Free Chlorine. Complete the color matching **within one (1) minute**.

NOTE: Color chart prepared with standards at R.T. (22°C - 27°C). If outside this temperature range, refer to chart.

mg/L

0.0 0.05 0.1 0.2 0.4 0.6 0.8 1.2 1.5 2.0 2.6 4.0 >6.0

Compliance Monitoring Range: 0.05 to 2.0 mg/L

Dilute and Retest: >4.0 mg/L

© 2008 Industrial Test Systems, Inc. • R038A-FCWC-2.5 • SENSAFE™ is a trademark of Industrial Test Systems, Inc., Rock Hill, SC USA

SAMPLE LABEL

USEPA

APPROVED

What does USEPA approved mean?

The USEPA APPROVED logo defines products as approved by the United States Environmental Protection Agency for reporting and recording purposes. States may have different requirements and approvals. Before testing, check with your local governing authority to be certain a specific product is acceptable for testing and reporting.

Chlorine SenSafe™ Strips and Test Strips

Free & Total Chlorine Products



480023



480602



480002



480022

TEST STRIPS (FREE)	PRODUCT #	DETECTION LEVELS
Chlorine- Free, btl of 50	480002	Method A: 0, 1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0 ppm (mg/L) Method B: 0.00, 0.05, 0.10, 0.20, 0.40, 0.60, 0.80, 1.20 ppm (mg/L)
Chlorine SenSafe™ Water Check-Free, btl of 50	481026	0, 0.05, 0.1, 0.2 0.4, 0.6, 0.8, 1.2, 1.5, 2.0, 2.6, 4.0,>6.0 ppm (mg/L) <i>SEE SAMPLE LABEL ON PAGE 9</i>
Chlorine Check-Free, btl of 50	480023	0, 0.25, 0.5, 1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 11, 15, 20, 25 ppm (mg/L)
Chlorine SenSafe™-Free, 50 pkts of 1	480602	Method A: 0, 4.0, 8.0, 9.0, 11, 15, 20, 25 ppm (mg/L) Method B: 0, 1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0 ppm (mg/L) Method C: 0, 0.05, 0.1, 0.2, 0.4, 0.8, 1.2, 1.6, ppm (mg/L)
Chlorine Sanitizer Check-Free, 30 pkts of 1	481130	0, 1.0, 3.0, 5.0, 10, 12, 15, 20, 40, 80 ppm (mg/L)
Chlorine HR-Free, btl of 50	480022	0, 1, 2, 5, 10, 20, 30, 40, 80, 120 ppm (mg/L)
Chlorine Check Ultra High-Free, btl of 50	480024	0, 25, 50, 100, 200, 300, 400, 500, 750 ppm (mg/L)
Chlorine Check Ultra High II-Free, btl of 50	480124	0, 25, 50, 200, 500, 800, 1100, 1500, 2000 ppm (mg/L)
TEST STRIPS (TOTAL)	PRODUCT #	DETECTION LEVELS
Ultra Low Total Chlorine, 30 pkts of 1	480007	Method A: 0.0, 0.01, 0.02, 0.05, 0.1, 0.15, 0.2 ppm (mg/L) Method B: 0.0, 0.005, 0.01, 0.015, 0.02, 0.025, 0.05 ppm (mg/L)
Chlorine-Total, btl of 50	480010	0, 0.05, 0.1, 0.15, 0.2, 0.5, 0.8, 1.0, 4.0, 10.0 ppm (mg/L)
Chlorine-Total, 30 pkts of 1	481110	0, 0.05, 0.1, 0.15, 0.2, 0.5, 0.8, 1.0, 4.0, 10.0 ppm (mg/L)
Chlorine HR-Total, btl of 50	480033	0.0, 5, 10, 20, 30, 40, 60, 80 ppm (mg/L)
TEST STRIPS (FREE + TOTAL)	PRODUCT #	DETECTION LEVELS
Chlorine-Free&Total, 30 pkts of 1	480655	0, 0.1, 0.2, 0.5, 1.0, 2.5, 5.0 ppm (mg/L)
DPD EXACT® MICRO STRIPS FOR COLORIMETERS (10ML)		
DPD-1 eXact® Strip, btl of 50	481647	0.0 to 6 ppm (mg/L) for testing Free Chlorine
DPD-1 eXact® Strip, 100 pkts of 1	484101	0.0 to 6 ppm (mg/L) for testing Free Chlorine
DPD-3 eXact® Strip, btl of 50	481648	0.0 to 6 ppm (mg/L) for testing Total Chlorine (use with DPD-1)
DPD-3 eXact® Strip, 100 pkts of 1	484103	0.0 to 6 ppm (mg/L) for testing Total Chlorine (use with DPD-1)
DPD-4 eXact® Strip, btl of 50	481670	0.0 to 6 ppm (mg/L) for testing Total Chlorine (use with DPD-1)
DPD-4 eXact® Strip, 100 pkts of 1	484104	0.0 to 6 ppm (mg/L) for testing Total Chlorine (use with DPD-1)
DPD EXACT® MICRO STRIPS FOR COLORIMETERS (4ML)		
DPD-1 eXact® Strip, btl of 100	486641	0.01 to 10.8 ppm (mg/L) for testing Free Chlorine
DPD-3 eXact® Strip, btl of 100	486638	0.01 to 10.8 ppm (mg/L) for testing Total Chlorine (use with DPD-1)
DPD-4 eXact® Strip, btl of 100	486670	0.01 to 10.0 ppm (mg/L) for testing Total Chlorine (use with DPD-1)

Chromium Test Strip

SAMPLE LABEL

WaterWorks™
Chromium (chromate)
Values given are as Chromium Cr⁶⁺

Part Number 480047
Contains 50 test strips

TEST PROCEDURE:
Dip one test strip into sample for **2 seconds**. Remove the strip and shake once, briskly, to remove excess water. **Wait 30 seconds**, then match with closest color. Complete color matching **within 45 seconds**.

This test is designed to detect Chromate (CrO₄²⁻) but values are given as Chromium Cr⁶⁺. If Chromium is present as Cr³⁺, it has to be first converted to Chromate for detection. Conversion procedure supplied. For Technical Assistance, Call: 1-800-329-0162 www.sensafe.com

MADE IN USA R083-CRO4 ©2003

- Accurate results in 32 seconds
- Designed to detect chromate (CrO₄²⁻)
- Values given as Hexavalent Chromium (Cr⁶⁺)
- Cr³⁺ conversion method available
- Detects EPA MCL in water (0.1 ppm)
- Safe, non-hazardous chemistry



480047

DESCRIPTION - TEST STRIPS	PRODUCT #	DETECTION LEVELS
Chromium (chromate), btl of 50	480047	<math><0.1, 0.25, 0.5, 1, 2.5, 5, 10, 25, 50</math> ppm (mg/L) as chromium
Chromium (chromate), 30 pkts of 1	481147	<math><0.1, 0.25, 0.5, 1, 2.5, 5, 10, 25, 50</math> ppm (mg/L) as chromium

Copper (Cu⁺¹ / Cu⁺²) SenSafe™ Strips

SAMPLE LABEL

SenSafe™
John's Copper Check™
US Patent # 6541269

Part Number 480042 Contains 25 Test Strips

(Cu⁺¹ / Cu⁺² - Free/Dissolved)

Test Procedure: Collect a fresh 200ml water sample. Dip one test strip into the sample for **15 seconds** with a constant, gentle back and forth motion. Remove the strip and shake once, briskly, to remove excess water. **Wait 30 seconds**. View through the aperture to match with the closest color. Complete color matching **before 60 seconds** have elapsed.

NOTE: For better color matching fold the white plastic handle of the test strip under the aperture so that it produces a white viewing background (see Figure 1).
For Technical Assistance, Call: 1-800-329-0162

1.3 is USEPA Maximum Contaminant Level
DO NOT STORE IN DIRECT SUNLIGHT OR ABOVE 90°F
www.sensafe.com
MADE IN USA R077A-JCU3
© 2007 Industrial Test Systems, Inc.
SENSAFE™ and JOHN'S COPPER CHECK™ are trademarks of Industrial Test Systems, Inc., Rock Hill, SC USA

- US Patent #6541269
- Quick and easy test
- No metal ion interferences <math>< 5</math> ppm
- Detects copper as low as 0.05 ppm
- Works in water with wide pH range
- Detects EPA standard in water (0.1 ppm)
- Safe, non-hazardous chemistry



480042

DESCRIPTION - TEST STRIPS	PRODUCT #	DETECTION LEVELS
John's Copper Check™, btl of 25	480042	0, 0.05, 0.1, 0.2, 0.4, 1, 2 ppm (mg/L) <i>SEE SAMPLE LABEL</i>
Copper (Cu ⁺¹ /Cu ⁺²), 30 pkts of 1	481111	0, 0.5, 1.0, 2.0, 5.0 ppm (mg/L)
Copper (Cu ⁺¹ /Cu ⁺²), btl of 25	480011	0, 0.5, 1.0, 2.0, 5.0 ppm (mg/L)

Cyanide (CN⁻) Reagent Strip

- US Patent #7333194
- USEPA/ETV verified technology (www.epa.gov/etv)
- Ideal test for wastewater applications

- Accurate results in under a minute
- Detects EPA maximum contamination level (0.2 ppm)
- Visual or colorimeter method
- Safe, non-hazardous chemistry



484003

Information on the performance characteristics of eXact® Strip Cyanide can be found at www.epa.gov/etv, or call ITS at 1-800-861-9712 for a copy of the ETV verification report. The use of the ETV® Name or Logo does not imply approval or certification of this product nor does it make any explicit or implied warranties or guarantees as to product performance.

DESCRIPTION - KIT	PRODUCT #	DETECTION LEVELS
eXact® Strip Cyanide CN-1 btl of 50	484001	0.01, 0.03, 0.05, 0.1, 0.2, 0.4, 0.8, 2, 5, 15, 25, 50, 100 ppm (mg/L)
eXact® Strip Cyanide CN-2 btl of 50	484002	0.01, 0.03, 0.05, 0.1, 0.2, 0.4, 0.8, 2, 5, 15, 25, 50, 100 ppm (mg/L)
Cyanide - complete kit (50 tests)	484003	Kit: CN-1 (btl of 50), CN-2 (btl of 50), 4 cuvettes, pipette, CD, instructions/MSDS, and 2 color charts.
Cyanide - 10's kit (10 tests)	484015	Kit: 10 tests (CN-1 and CN-2 foil packets), 2 cuvettes, pipette and 2 color charts.
Cyanide - emergency kit and instructions. Detects 0.2 to 1700 ppm (mg/L)	484020	Kit: 2 tests (CN-1 and CN-2 foil packets), 2 cuvettes

Fluoride (F-) Reagent and Reagent Strip System

- Uses Thorium and Alizarin Red method
- Results in one minute
- Use with eXact® EZ Advanced Photometer (481667)

481622



DESCRIPTION	PRODUCT #	DETECTION LEVELS
eXact® Fluoride kit (50 tests)	481622	0.00-1.20 ppm
SPADNS Reagent for Fluoride, 50 tests	488449	Replacement kit for HACH #44449 (250mL)

Hardness, Total (Ca²⁺) Test Strip

WaterWorks™ Total Hardness
(as Calcium Carbonate)
Part Number: 480008 Contains 50 Test Strips

TEST PROCEDURE: Dip one strip into water sample for 3 seconds, remove and immediately match with closest color. Color is stable for 1 minute. Read results as ppm (parts per million), GPG (Grains per Gallon), or DH (Degrees Hardness).

DO NOT STORE BOTTLE IN DIRECT SUNLIGHT OR ABOVE 90°F
R0185-TN2B

For Technical Assistance, Call: 1-803-329-0162
www.sensafe.com

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WATERWORKS™ is a trademark of Industrial Test Systems, Inc., Rock Hill, SC USA

MADE IN THE USA

Understanding Your Results:
Hardness greater than 80 PPM - Detergents with softening agents are not completely effective in cleaning.
Hardness greater than 120 PPM - Some scaling will occur in pipes and appliances.
Hardness greater than 250 PPM - Dishwasher impossible to use without producing film on dishes.

- Perfect for service work, water quality testing, and classroom demonstrations
- Wide range of detection levels
- Ideal for homeowners setting up a water softener
- 3 second test method
- Available in individual packs

480008



DESCRIPTION - TEST STRIPS	PRODUCT #	DETECTION LEVELS
Hardness, Total, btl of 50	480008	0, 40, 80, 120, 180, 250, 425, 1000 ppm (mg/L) AND: 0, 2, 5, 7, 11, 15, 25, 58 grains /gallon <i>SEE SAMPLE LABEL</i>
Hardness, Total, 30 pkts of 1	481108	0, 40, 80, 120, 180, 250, 425, 1000 ppm (mg/L) AND: 0, 2, 5, 7, 11, 15, 25, 58 grains /gallon
Hardness, Total, 1000 pkts of 1	481108-1P	0, 50, 120, 180, 250, 425, 1000 ppm (mg/L) AND: 0, 3, 5, 7, 11, 15, 25, 58 grains /gallon

Hydrogen Sulfide Test Strip

Low Range Hydrogen Sulfide Check

mp/L: 0.0, 0.3, 0.5, 1.0, 2.0

Place blank vial on circle

Place sample vial on circle

Per L Number: 481197

- Ideal for testing well water
- # 481201 Uses two methods for different detection levels
- Safe, non-hazardous chemistry

481197-20



DESCRIPTION - TEST STRIPS	PRODUCT #	DETECTION LEVELS
Hydrogen Sulfide LR, 30 pkts of 1	481197-20	0, 0.3, 0.5, 1.0, 2.0 ppm (mg/L) <i>SEE SAMPLE CARD</i>
Hydrogen Sulfide, btl of 50	481197-1	0, 5, 10, 20, 30, 40, 50, 60, 80 ppm (mg/L)
Hydrogen Sulfide Ultra-Low, btl of 50	481201	Method A <0.005, 0.01, 0.02, 0.03, 0.05, 0.075, 0.1, 0.2 Method B <0.05, 0.05, 0.075, 0.1, 0.2, 0.25, 0.3, 1.0 ppm (mg/L)

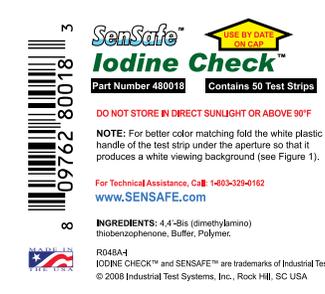
USEPA COMPLIANT

What does USEPA compliant mean?

Products with the USEPA COMPLIANT logo are approved by the United States Environmental Protection Agency for reporting purposes. Products must be used correctly with the appropriate test method. Certain states have different requirements. Before testing, check with your local governing authority to be certain a specific product is acceptable for testing.

Iodine (I₂) SenSafe™ Strip

SAMPLE LABEL



SenSafe™ Iodine Check™
Part Number 480018 Contains 50 Test Strips

DO NOT STORE IN DIRECT SUNLIGHT OR ABOVE 90°F

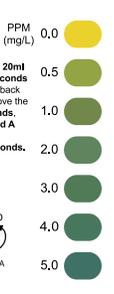
NOTE: For better color matching fold the white plastic handle of the test strip under the aperture so that it produces a white viewing background (see Figure 1).

For Technical Assistance, Call: 1-803-329-0162
www.SENSAFE.com

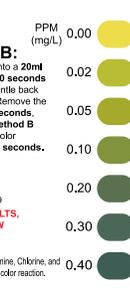
INGREDIENTS: 4,4'-Bis (dimethylamino) thiobenzophenone, Buffer, Polymer.

RD48A-1
IODINE CHECK™ and SENSAFE™ are trademarks of Industrial Test Systems, Inc., Rock Hill, SC USA
© 2008 Industrial Test Systems, Inc., Rock Hill, SC USA

METHOD A:
Dip one test strip into a 20ml water sample for 10 seconds with a constant, gentle back and forth motion. Remove the strip and wait 30 seconds, then match with Method A colors. Complete color matching within 15 seconds.



METHOD B:
Dip one test strip into a 20ml water sample for 30 seconds with a constant, gentle back and forth motion. Remove the strip and wait 30 seconds, then match with Method B colors. Complete color matching within 15 seconds.



US Pat. No. 6541269
FOR BEST RESULTS, PLEASE FOLLOW INSTRUCTIONS CAREFULLY.
INTERFERENCES: Bromine, Chlorine, and Ozone will give a similar color reaction.

480018

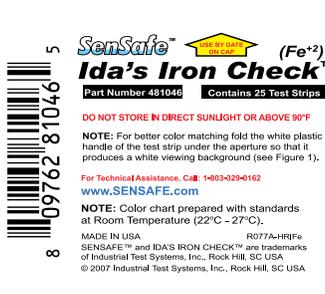
- Ideal for the food, medical and water treatment industries
- Uses two methods for different detection levels
- No MSDS required
- A mechanical reader is NOT required to reach/achieve the 0.02 ppm (mg/L) sensitivity.



DESCRIPTION - TEST STRIPS	PRODUCT #	DETECTION LEVELS
Iodine, btl of 50	480018	Method A 0.0, 0.5, 1.0, 2.0, 3.0, 4.0, 5.0 <i>SEE SAMPLE LABEL</i> Method B 0.0, 0.02, 0.05, 0.10, 0.20, 0.30, 0.40, 0.5, 1.0, 2.0, 3.0, 4.0, 5.0 ppm (mg/L)
Iodine Check High, btl of 50	480064	0, 5, 10, 15, 20, 30, 40, 50, 75, 100, 150, 200, 250, 300 ppm (mg/L)
DPD-1 eXact® Strip, btl of 50	481647	0.0 to 5 ppm (mg/L) Please see page 8 for more information.
DPD-1 eXact® Strip, 100 pkts of 1	481101	0.0 to 5 ppm (mg/L) Please see page 8 for more information.

Iron (Fe²⁺) SenSafe™ Strip

SAMPLE LABEL



SenSafe™ Ida's Iron Check™ (Fe²⁺)
Part Number 481046 Contains 25 Test Strips

DO NOT STORE IN DIRECT SUNLIGHT OR ABOVE 90°F

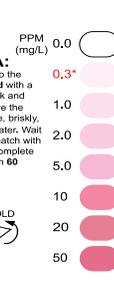
NOTE: For better color matching fold the white plastic handle of the test strip under the aperture so that it produces a white viewing background (see Figure 1).

For Technical Assistance, Call: 1-803-329-0162
www.SENSAFE.com

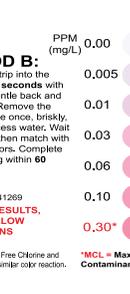
NOTE: Color chart prepared with standards at Room Temperature (22°C - 27°C).

MADE IN USA RD77A-HRIFs
SENSAFE™ and IDA'S IRON CHECK™ are trademarks of Industrial Test Systems, Inc., Rock Hill, SC USA
© 2007 Industrial Test Systems, Inc., Rock Hill, SC USA

METHOD A:
Dip one test strip into the sample for 1 second with a constant, gentle back and forth motion. Remove the strip and shake once, briskly, to remove excess water. Wait 30 seconds, then match with Method A colors. Complete color matching within 60 seconds.



METHOD B:
Dip one test strip into the sample for 30 seconds with a constant, gentle back and forth motion. Remove the strip and shake once, briskly, to remove excess water. Wait 30 seconds, then match with Method B colors. Complete color matching within 60 seconds.



US Pat. No. 6541269
FOR BEST RESULTS, PLEASE FOLLOW INSTRUCTIONS CAREFULLY.
INTERFERENCES: Free Chlorine and Bromine will give a similar color reaction. *MCL = Maximum Contaminant Level

481046

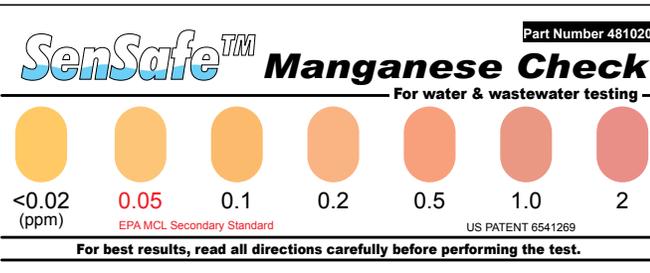
- US Patent #6541269
- Ideal test for measurement of dissolved iron levels found in well, tap and stream water
- Uses two methods for different detection levels
- No interferences from other metals
- No MSDS required
- Safe, non-hazardous chemistry



DESCRIPTION	PRODUCT #	DETECTION LEVELS
Ida's Iron Check, (Fe ²⁺), btl of 25	481046	Method A 0, 0.3, 1.0, 2.0, 5.0, 10, 20, 50 ppm (mg/L) <i>SEE SAMPLE LABEL</i> Method B 0, 0.005, 0.01, 0.03, 0.06, 0.10, 0.30 ppm (mg/L)
Iron Check, (Fe ²⁺ /Fe ³⁺), 30 pkts of 1	480125	0, 0.02, 0.05, 0.1, 0.2, 0.3, 0.5, 0.75, 1.0, 2.0, 5.0 ppm (mg/L)
Iron Check, (Fe ²⁺ /Fe ³⁺), btl of 25	480025	0, 0.02, 0.05, 0.1, 0.2, 0.3, 0.5, 0.75, 1.0, 2.0, 5.0 ppm (mg/L)
Iron Check, (Fe ²⁺), 30 pkts of 1	480331	0, 0.1, 0.3, 1.0, 5.0 ppm (mg/L)
Iron Check, (Fe ²⁺), btl of 25	481331	0, 0.1, 0.3, 1.0, 5.0 ppm (mg/L)
Iron, Total (Fe ²⁺ /Fe ³⁺), 50 pkts of 1	481623-V	0, 0.3, 0.5, 1, 3, 5 ppm (mg/L) <i>NEW VISUAL TEST</i>

Manganese (Mn²⁺) SenSafe™ Strip and Reagent Strip Combination Kit

SAMPLE LABEL



SenSafe™ Manganese Check™
Part Number 481020
For water & wastewater testing



For best results, read all directions carefully before performing the test.

481020

- US Patent #6541269
- No interferences from other metals
- Rapid accurate alternative to liquid chemical tests
- Ideal for on-site testing
- Easy dip-and-read visual test



DESCRIPTION	PRODUCT #	DETECTION LEVELS
Manganese Check, 24 Tests	481020	<0.02, 0.05, 0.1, 0.2, 0.5, 1, 2 ppm (mg/L) <i>SEE SAMPLE LABEL</i>
Kit contains: Zip Lock bag, 5 ml vial, (24) Manganese Strip #1, (24) Manganese Strip #2, (24) Manganese Strip #3, MSDS Sheet, Color Chart Card		
REAGENT STRIPS		
eXact® Manganese, 50 Tests	488433	0.01-0.7 ppm (mg/L)
Direct replacement for HACH® (265100) PAN Manganese test with a safer and easier PAN test method. Kit contains: eXact® Strip #1 (Ascorbic Acid), eXact® Strip Mn #2 (Cyanide), and eXact® Strip Mn-3 (PAN aperture strip).		

Lead (Pb²⁺) *Lead in Water, Soil and Paint Compliance Testing*

- US Patent #7333194
- Easy field Lead (Pb²⁺) tests
- Results in only 5 minutes
- Readily determines if EPA MCL of 15 ppb (µg/L) in drinking water is exceeded
- #488376 a replacement for HACH® Lead-Trak™ part no. 5870021 test kit
- Safe, non-hazardous chemistry



LEADQuick™
Lead in Water Test Kit

488376

LEADQuick™
Lead in Water Reagent Set

488375



LEADQuick™
Paint Professional Lead Test Kit

487925-EM



LEADQuick™
Paint Professional Reagent Set

487925-P50



LEADQuick™
Paint Home Visual Lead Test Kit

487925-V

DESCRIPTION	PRODUCT #	DETECTION LEVELS
LEADQuick™ Colorimeter Test Kit	488376	3 - 600 ppb (µg/L) (488375 plus colorimeter)
LEADQuick™, 25 tests	488375	3 - 600 ppb (µg/L)
LEADQuick™ Paint Professional Lead Test Kit	487925-EM	3 - 600 ppb (µg/L) (488375 plus colorimeter)
LEADQuick™, 50 tests	487925-P50	3 - 600 ppb (µg/L)
LEADQuick™ Paint Home Visual Lead Test Kit, 50 tests	487925-V	0.05, 0.2, 0.4, 0.6, 0.8, 1.0, 1.2 mg/cm ²
SenSafe™ Lead Soil Check, 5 tests	480311	0, 100, 200, 300, 400 (tests for lead & other heavy metals- visual)
WaterWorks™ Lead Water Test, 2 tests	487997	Tests for the EPA limit of 15 ppb (µg/L) lead in water, lateral flow test strip

Pb

Why Lead testing is important

Lead exposure can cause serious health problems, especially in young children. When lead is absorbed into the body, it can cause damage to the brain and other vital organs. The greatest concern is even exposure to "low level" lead reduces a child's ability to learn. Our cutting-edge Lead tests are quick, accurate and easy to operate in the field.

Mercury (Hg²⁺) SenSafe™ Strip

SAMPLE LABEL

WaterWorks™

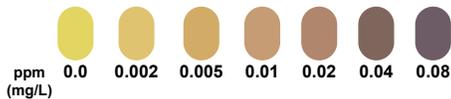


Boris's Mercury Check™

Part Number 480049

Contains 50 Test Strips

IMPORTANT:
Store in cool (below 30°C), dry place and away from direct sunlight.



For Technical Assistance, Call: 1-803-329-0162 www.SENSAFE.com

TEST PROCEDURE: Dip one test strip into a 200ml (7oz) or greater water sample for 60 seconds with a constant, gentle back and forth motion. Remove the strip and shake once, briskly, to remove excess water. **Wait 30 seconds**, then match to the color chart below.

- US Patent #6541269
- Results in under a minute
- Ideal for process testing
- Detects EPA MCL primary drinking water standard of .002 ppm (mg/L)

480049



R048-BHg

WATERWORKS™ is a trademark of Industrial Test Systems, Inc., Rock Hill, SC USA

US Patent # 6541269

© 2008 Industrial Test Systems, Inc.

DESCRIPTION - TEST STRIPS	PRODUCT #	DETECTION LEVELS
Boris's Mercury Check, btl of 50	480049	0.0, 0.002, 0.005, 0.01, 0.02, 0.04, 0.08 ppm (mg/L) <i>SEE SAMPLE LABEL</i>
Mercury Check, btl of 50	480048	0, 50, 100, 200, 500, 1000 ppb (µg/L)
Mercury Check, 30 pkts of 1 (no card)	481148	0, 50, 100, 200, 500, 1000 ppb (µg/L)

Nitrate/Nitrite Nitrogen (NO₃⁻ / NO₂⁻) Test Strip

SAMPLE LABEL

WaterWorks™

(as N)

Nitrate and Nitrite

Part Number 480009

Contains 50 Test Strips

TEST PROCEDURE: Dip one test strip into water sample for 2 seconds, remove, wait 1 minute, and match Nitrate/Nitrite (end pad) and Nitrite colors. Complete color matching within 1 minute. Record results.
NOTE: For conversion of levels to NO₃⁻ and NO₂⁻, multiply Total Nitrate value by 4.4 to get NO₃⁻ mg/L; and multiply Nitrite value by 3.3 to get NO₂⁻ mg/L.

Store in a cool, dry place away from excess heat (below 90°F).

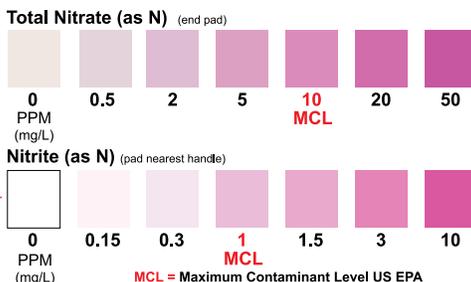
For Technical Assistance, Call: 1-803-329-0162

www.SENSAFE.com

WATERWORKS™ is a trademark of Industrial Test Systems, Inc., Rock Hill, SC USA



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- Ideal for testing potable water
- Reports results as: Nitrogen (N) or Nitrate/Nitrite (NO₃/NO₂)
- No cadmium
- Safe, non-hazardous chemistry
- Accurate results in 1 minute

480009



DESCRIPTION - TEST STRIPS	PRODUCT #	DETECTION LEVELS
Nitrate and Nitrite, btl of 50	480009	NO ₃ : 0, 0.5, 2, 5, 10, 20, 50 <i>SEE SAMPLE LABEL</i> NO ₂ : 0.15, 0.3, 1, 1.5, 3, 10 ppm (mg/L)
Nitrate and Nitrite, 30 pkts of 1	481109	NO ₃ : 0, 0.5, 2, 5, 10, 20, 50; NO ₂ : 0.15, 0.3, 1, 1.5, 3, 10 ppm (mg/L)

Ozone (O₃) SenSafe™ Strip

SAMPLE LABEL

SenSafe™

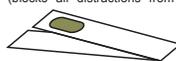
Ozone Check™
(in Water)

Contains 50 Test Strips

Part Number 481234

FOR BEST RESULTS, PLEASE FOLLOW INSTRUCTIONS CAREFULLY.

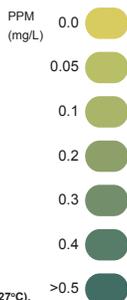
NOTE: For better color matching view the aperture against a white surface. A suggestion is to fold the white plastic handle of the test strip under the aperture so that it produces a white viewing background (blocks all distractions from behind).



USA ©2008 US Patented



TEST PROCEDURE: Dip one test strip into a 50mL or larger water sample with constant, gentle back and forth motion for 10 seconds. Remove the strip, shake once, briskly, to remove excess water and wait 20 seconds. Then, view through the aperture to match with the closest color. Complete color matching within 30 seconds. Color chart calibrated with standards at R.T. (22-27°C).



- US Patent #6541269
- Low detection levels
- No MSDS required
- Accurate results in 30 seconds
- Safe, non-hazardous chemistry

481234



DESCRIPTION - TEST STRIPS	PRODUCT #	DETECTION LEVELS
Ozone Check, btl of 50	481234	0, 0.05, 0.1, 0.2, 0.3, 0.4, >0.5 ppm (mg/L) <i>SEE SAMPLE LABEL</i>
Ozone Check, 30 pkts of 1	481134	0, 0.05, 0.1, 0.2, 0.3, 0.4, >0.5 ppm (mg/L)
DPD-4 eXact® Strip, btl of 50	481670	0.0 to 6 ppm (mg/L) Please see page 8 for more information.
DPD-4 eXact® Strip, 100 pkts of 1	484104	0.0 to 6 ppm (mg/L) Please see page 8 for more information.

Permanganate (MnO₄⁻) SenSafe™ Strip

SenSafe™ Low Range Permanganate Check™

FOR BEST RESULTS, PLEASE FOLLOW INSTRUCTIONS CAREFULLY.

Contains 50 Test Strips
Part Number 481138

MADE IN USA Patent Pending ©2001 R121-LRPG
8 09762 81138 7

TEST PROCEDURE:
Dip one test strip into a 50mL water sample for 30 seconds with constant, gentle back-and-forth motion. Remove the strip and shake once, briskly, to remove excess water. Wait 15 seconds. View through the aperture to match with closest color on the color chart. Complete color match within 15 seconds.
For better accuracy, fold the test strip in half so that the white handle covers the underside of the aperture (window).

VIEW FOLD

PPM (mg/L) 0.0 0.05 0.07 0.10 0.15 0.20 0.5 1.0 2.0 3.0

- Easy dip-and-read procedure
- Ideal for on-site water testing
- Perfect test for Koi pond and water garden hobbyists

481138



DESCRIPTION - TEST STRIPS	PRODUCT #	DETECTION LEVELS
SenSafe™ Permanganate, btl of 50	481138	0, 0.05, 0.07, .10, 0.15, .20, 0.5, 1.0, 2.0, 3.0 ppm (mg/L) <i>SEE SAMPLE LABEL</i>
DPD-1 eXact® Strip, btl of 50	481647	0.0 to 6 ppm (mg/L) Please see page 8 for more information.
DPD-1 eXact® Strip, 100 pkts of 1	481101	0.0 to 6 ppm (mg/L) Please see page 8 for more information.

Peroxide (H₂O₂) Test Strip

WaterWorks™ Peroxide Check

USE BY DATE ON CAP

Part Number 480014 Contains 50 Test Strips

IMPORTANT:
Store in cool, dry (below 90°F) place and away from direct sunlight. Use the strips by date on bottle cap.

038A-H₂O₂

TEST PROCEDURE: Dip one test strip into water sample for 2 seconds. Remove the strip and compare with the closest color match after 30 seconds. Results will show parts per million (ppm) contents of Hydrogen Peroxide (H₂O₂).
Interferences: If other oxidizing agents such as Free Chlorine are present in the sample, similar color development may occur.

ppm <0.5 2 5 10 25 50 100

For Technical Assistance, Call: 1-803-329-0162 www.sensafe.com

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- Test uses HRP enzyme with TMB which forms blue in the presence of Peroxide
- No mechanical reader required
- No MSDS required
- Accurate results in a minute
- Safe, non-hazardous chemistry

481015



DESCRIPTION - TEST STRIPS	PRODUCT #	DETECTION LEVELS
Peroxide (H ₂ O ₂), btl of 50	480014	<0.5, 2, 5, 10, 25, 50, 100 ppm (mg/L)
Peroxide Check LR, btl of 50	481015	0.05, 0.3, 0.5, 1.0, 2.0, 4.0 ppm (mg/L) <i>SEE SAMPLE LABEL</i>
Peroxide Check HR, 30 pkts of 1	481116	0, 200, 400, 800, 1600, 2500, 5000, 10000, 30000 ppm (mg/L)

Pesticide Immunoassay Strip

- Performance and accuracy verified by the USEPA through the ETV program (www.epa.gov/etv)
- Unique test strip using immunoassay (lateral flow)
- Accurate results in 10 minutes
- Safe, non-hazardous chemistry
- Detects both the USEPA limit of 3 ppb (µg/L) for atrazine and 4 ppb (µg/L) for simazine



487996



DESCRIPTION - TEST STRIPS	PRODUCT #	DETECTION LEVELS
Quick™ Pesticide, 2 tests	487996	Tests for the EPA limit of 3 ppb (µg/L) atrazine & 4ppb (µg/L) simazine, lateral flow strip

Information on the performance characteristics of Quick Pesticide can be found at www.epa.gov/etv, or call ITS at 1-800-861-9712 for a copy of the ETV verification report. The use of the ETV® Name or Logo does not imply approval or certification of this product nor does it make any explicit or implied warranties or guarantees as to product performance.

Using our SenSafe™ strips with patented aperture

For better color matching view our Sensafe aperture against a white surface. Fold the white plastic handle of the test strip under the aperture so that it produces a white viewing background. This smooth, even background gives a better color representation. Only Industrial Test Systems can offer this unique test strip.

Protein (as Albumin) Test Strip

SAMPLE LABEL

WaterWorks™ Protein Check

Part Number: 480128

Contains 50 Strips



TEST PROCEDURE:

Dip one test strip into water sample for **2 seconds**. Remove strip and shake once briskly to remove excess sample. **Wait 30 seconds** and match color with closest color on color chart. Complete color matching within the next 10 seconds.



NOTE: Standard were prepared from Bovine Serum Albumin.

DO NOT STORE BOTTLE IN DIRECT SUNLIGHT OR ABOVE 90°F

www.sensafe.com



R123-Prot
MADE IN USA
©2003

- Allows amino acids and proteins to be detected quickly and easily **480128**
- Fast, semi-quantitative results in 30 seconds
- Utilizes tetrabromophenol blue indicator
- Originally developed as a protein urine test

DESCRIPTION - TEST STRIPS	PRODUCT #	DETECTION LEVELS
Protein Check, btl of 50	480128	0, 0.1, 0.2, 0.3, 0.5, 1, 2, 5 g/L <i>SEE SAMPLE LABEL</i>

pH Test Strip

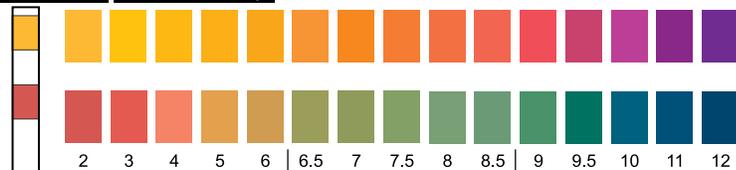
SAMPLE LABEL

WaterWorks™ Extended Range pH

Part Number 481104

Contains 50 Test Strips

Test Procedure: Dip one test strip into water sample for **10 seconds** with constant, gentle, back and forth motion. Remove the strip and shake once, briskly, to remove excess water sample. **Wait 20 seconds** and match with the closest color block for each pad. For best performance, complete the readings **within 10 seconds**.



USEPA Recommended pH Range

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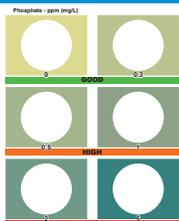
- Rapid pH detection in tap water, process water and control, ponds, lakes, and streams **481104**
- Uses a dual-indicator color matching system
- Wide range of detection levels (2 - 12 ppm (mg/L))
- Safe, non-hazardous chemistry



DESCRIPTION - TEST STRIPS	PRODUCT #	DETECTION LEVELS
pH Check, btl of 50	481104	2, 3, 4, 5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10, 11, 12 ppm (mg/L) <i>SEE SAMPLE LABEL</i>
pH Check, 30 pkts of 1	480104	2, 3, 4, 5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10, 11, 12 ppm (mg/L)
pH / Total Alkalinity, btl of 50	480005	pH: 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0 ppm (mg/L) TA: 0, 80, 120, 180, 240, 360 ppm (mg/L)

Phosphate Reagent Strip

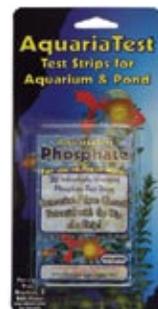
SAMPLE CARD



TEST PROCEDURE:
1. Fill vial to the top line with water.
2. Dip 1 phosphate reagent strip into the vial for 30 seconds with a constant up and down motion. *Do not use the strip to stir the water.*
3. Remove the strip and shake once, briskly, to remove excess water in the sample. *Do not use the strip to stir the water.*
4. Hold the color chart over a white surface.
5. Place the sample vial on the white surface.
6. Viewing from the top, allow the vial to rest on the white surface for 30 seconds and record your results.
7. Complete the color matching within 30 seconds and record your results.
* If your phosphate level is high, contact your local pond department dealer for recommended phosphate maximum.

- Ideal test for measuring phosphates in ponds and aquaria
- Reliable results in 30 seconds
- Critical tool for algae control
- Safe, non-hazardous chemistry
- Visual test method
- Fresh and Salt water (2 strips)

481355



DESCRIPTION - TEST STRIPS	PRODUCT #	DETECTION LEVELS
Phosphate, btl of 50	481349	0, 200, 400, 600, 1000, 2500 ppm (mg/L)
Phosphate, 10 pkts of 1	481350	0, 200, 400, 600, 1000, 2500 ppm (mg/L)
Aquaria Test Phosphate, 10 pkts of 1	481355	0, 0.3, 0.5, 1, 2, 5 ppb (µg/L) <i>SEE SAMPLE CARD</i>

Salt Test Strip

WaterWorks™

Salt Water Check (for salt and brackish water detection)

Part Number 482028

Contains 50 Test Strips

TEST PROCEDURE: Dip one test strip into water sample (with a pH between 5.5 to 9.5) for **2 seconds**. Remove the strip and shake once, briskly, to remove excess water. Wait 20 seconds. Match with the closest color **within the next 30 seconds**. Read salt concentration.

Conductivity ($\times 10^4 \mu\text{S/cm}$)

>8 6.6 5.3 4.0 2.7 1.3 <0.2



53 44 35 26 18 9 0

Salt Concentration (ppt)

53 44 35 Ocean Water

26 18 9 0 Fresh Water

For Technical Assistance, Call: 1-803-329-0162
www.sensafe.com

R048-SWC

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MADE IN USA

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- Easy dip-and-read test **482028**
- Ideal for field testing to detecting salt or brackish water detection
- Reliable results in 20 seconds
- Safe, non-hazardous chemistry
- PPT - Parts per thousand



DESCRIPTION - TEST STRIPS	PRODUCT #	DETECTION LEVELS
Salt Water Check, btl of 50	482028	Conductivity: >8, 6.6, 5.3, 4.0, 2.7, 1.3, <0.2 ($\times 10^4 \mu\text{S/cm}$) <i>SEE SAMPLE LABEL</i> Salt Concentration: 53, 44, 35 (ocean water), 26, 18, 9, 0 (fresh water)

Silver (Ag+) SenSafe™ Strip

- Ideal test for multiple industries
- Ultra low detection level of .005 ppm (mg/L)
- Glycine available to eliminate chlorine interferences
- No MSDS required
- Detects secondary national drinking water standards of 1 ppm (mg/L)
- Safe, non-hazardous chemistry



480044

DESCRIPTION - TEST STRIPS	PRODUCT #	DETECTION LEVELS
Silver (Boris'), btl of 50 (w/btl glycine)	480044	0, 0.005, 0.01, 0.025, 0.05, 0.075, 0.1 ppm (mg/L)
Silver (Boris'), btl of 50 (without glycine)		0, 0.005, 0.01, 0.025, 0.05, 0.075, 0.1 ppm (mg/L)
Silver (Boris'), 30 pkts of 1 (w/btl glycine)	481144	0, 0.005, 0.01, 0.025, 0.05, 0.075, 0.1 ppm (mg/L)
Silver (Boris'), 30 pkts of 1 (without glycine)		0, 0.005, 0.01, 0.025, 0.05, 0.075, 0.1 ppm (mg/L)
Silver Check II HR, btl of 50	480045	50, 100, 250, 500, 1000 ppb ($\mu\text{g/L}$)

Sulfate (SO₄⁻²) Test Strip

WaterWorks™

Sulfate Check

Part Number 481200

Contains 50 Test Strips

IMPORTANT: Store in cool (below 30°C), dry place and away from direct sunlight.



R028-FCH

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ppm (mg/L)

0

250

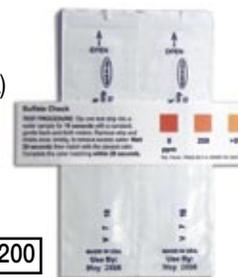
>500

For Technical Assistance, Call: 1-803-329-0162
www.SENSAFE.com

US Patent # 5490194
© 2008 Industrial Test Systems, Inc.

TEST PROCEDURE: Dip one test strip into a water sample for **10 seconds** with a constant, gentle back and forth motion. Remove the strip and shake once, briskly, to remove excess water. Wait **20 seconds**, then match with the closest color. Complete color matching **within 20 seconds**.

- Ideal for effluent testing
- Detects USEPA secondary standard of 250 ppm (mg/L)



481200

DESCRIPTION - TEST STRIPS	PRODUCT #	DETECTION LEVELS
Sulfate, 30 pkts of 1	481200	0, 250, >500 ppm (mg/L) <i>SEE SAMPLE LABEL</i>

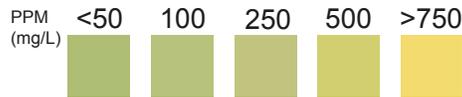
Total Dissolved Solids (TDS) Test Strip

- Fast, semi-quantitative results in 12 seconds
- Single dip test procedure
- Ideal for field, on-site and lab testing
- Eliminates need for expensive meters
- Detects USEPA secondary national drinking water standards of 500 ppm (mg/L)
- Safe, non-hazardous chemistry



482029

WaterWorks™
Total Dissolved Solids
(in tap water) Part Number: 482029-1



TEST PROCEDURE:

Dip one test strip into water sample for **2 seconds**. Remove strip and shake once briskly to remove excess sample. **Wait 10 seconds** and match color with closest color on color chart. Complete color matching within the next 20 seconds.
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WaterWorks™ is a trademark of Industrial Test Systems, Inc., Rock Hill, SC USA

DESCRIPTION - TEST STRIPS	PRODUCT #	DETECTION LEVELS
Total Dissolved Solids (TDS) btl of 50	482029	<50, 100, 250, 500, 750 ppm (mg/L) <i>SEE SAMPLE LABEL</i>

Metals Check (Co⁺², Cd⁺², Zn⁺², Cu⁺², etc) SenSafe™ Strip for Water

SenSafe™
Water Metals Check
Semiquantitative contamination check for Heavy Metals in water (Cu²⁺, Co²⁺, Zn²⁺, Cd²⁺, Ni²⁺, Hg²⁺ etc...).

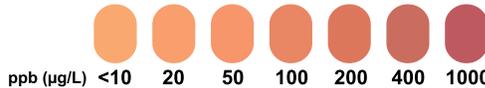


NOTE: For better color matching view the aperture against a white surface. A suggestion is to fold the white plastic handle of the test strip under the aperture so that it produces a white viewing background (blocks all distractions from behind).
For Technical Assistance, Call: 1-803-329-0162 www.sensafe.com

Part Number 480309 Contains 50 Test Strips

Test Procedure:

Dip one (1) test strip into a **20 ml** sample for **30 seconds** with constant, gentle back-and-forth motion. Remove and shake strip once, briskly, to remove excess water. **Wait 2 minutes** and match with the closest color on the color chart. Complete the color matching **within 30 seconds**.



NOTE: This test indicates the presence of heavy metals. The color chart was calibrated in a mixed metals solution. In the presence of one specific metal, or a high concentration of a specific metal, colors such as purple, red, or brown may appear. In this situation, matching levels based on color intensity may be necessary to reach semiquantitative results.
Store in a cool, dry place away from excess heat (below 90°F).
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R028A-WMC US Patent # 5620658 © 2008 Industrial Test Systems, Inc. SENS SAFE™ is a trademark of Industrial Test Systems, Inc., Rock Hill, SC USA

Our unique SenSafe™ strip can readily determine if your drinking water has heavy metals and, at what level. This test uses a very sensitive non-specific indicator that detects many common metals of concern. Because of the low detection of this test, all tap water that passes through a metal pipe will read 20ppb or higher. When testing filtered or RO system-purified water, the test should read <10ppb; this confirms your system is functioning properly. Additionally, bottled water should read <10ppb.



480309

DESCRIPTION - TEST STRIPS	PRODUCT #	DETECTION LEVELS
Water Metals Check, btl of 50	480309	<10, 20, 50, 100, 200, 400, 1000 ppb (µg/l) <i>SEE SAMPLE LABEL</i>
Water Metals Check, 30 pkts of 1	481309	<10, 20, 50, 100, 200, 400, 1000 ppb (µg/l) (Co, Cd, Zn, Cu, etc...)

Zinc (Zn⁺²) Test Strip

WaterWorks™
Zinc Check™

Part Number 480026 Contains 50 Test Strips



TEST PROCEDURE: Dip one test strip into water sample for **3 seconds**. Remove the strip and shake once, briskly, to remove excess water. **Wait 20 seconds**. Match with closest color **within the next 20 seconds**.

IMPORTANT: Store in dry, cool (below 30°C) place and away from direct sunlight. Use the strips by date on bottle cap.

INTERFERENCES: Similar positive color development shows up with the presence of Cu²⁺ (>0.1mg/L), Mn²⁺ (>5mg/L), and Fe²⁺ (>10mg/L).

NOTE: Most interferences from other metals can be overcome by adjusting the pH between 4.0 to 5.5 and adding sufficient Sodium Thiosulfate before test analysis. Since Zinc also forms a weak Thiosulfate complex, this test is empirical and demands the use of identical techniques for sample with and without the Thiosulfate.

For Technical Assistance, Call: 1-803-329-0162 www.sensafe.com



MADE IN USA R077A-ZnC WATERWORKS™ and ZINC CHECK™ are trademarks of Industrial Test Systems, Inc., Rock Hill, SC USA

- Single dip test procedure
- Ideal for controlled areas
- Accurate results in under 30 seconds
- Used to verify USEPA Secondary Drinking Water Standard of 5 ppm for zinc
- Utilizes zincon indicator
- Safe, non-hazardous chemistry



480026

DESCRIPTION - TEST STRIPS	PRODUCT #	DETECTION LEVELS
Zinc Check™, btl of 50	480026	0, 2, 5, 10, 20, 40, 100 mg/L
Zinc Check™, 30 pkts of 1	480126	0, 2, 5, 10, 20, 40, 100 mg/L

SAMPLE LABEL

SAMPLE LABEL

4-in-1 City Water Check Test Strip

- Quick and easy measurement of four important water quality parameters on one strip
- Accurate and reproducible results for pH, Total Alkalinity, Total Chlorine, and Total Hardness
- Fast, semi-quantitative results in 25 seconds
- Detects USEPA MCL's



480113

4-in-1 City Water Check
TESTS FOR:
 pH
 Total Alkalinity
 Total Chlorine
 Total Hardness

CONTAINS 25 STRIPS
 PART NUMBER 480113

TEST PROCEDURE:
 1. Dip one strip into a 250 ml (about 8 oz.) water sample for 5 seconds with a gentle back-and-forth motion.
 2. Remove the strip, shake once, briskly, to remove excess water. Wait an additional 20 seconds.
 3. Match pH, Total Alkalinity, Total Chlorine, and finally, Total Hardness in this order, with the color chart below. Complete all readings within 10 seconds.

pH - end pad - MATCH 1st
 2.0 4.0 5.0 6.5 8.5 9.5 10.5 12.0

TOTAL ALKALINITY (ppm) - second pad - MATCH 2nd
 0 40 80 120 180 240 500

TOTAL CHLORINE (ppm) - third pad - MATCH 3rd
 0 0.2 1.0 4.0 10.0

TOTAL HARDNESS (ppm) - pad nearest handle - MATCH 4th
 0 50 120 250 425 1000

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DESCRIPTION - TEST STRIPS	PRODUCT #	DETECTION LEVELS
4-in-1 City Water Check, btl of 25	480113	pH: 2.0, 4.0, 5.0, 6.5, 8.5, 9.5, 10.5, 12.0 <i>SEE SAMPLE LABEL</i> Total Alkalinity: 0, 40, 80, 120, 180, 240, 500 ppm (mg/L) Total Chlorine: 0, 0.2, 1.0, 4.0, 10.0 ppm (mg/L) Total Hardness: 0, 50, 120, 250, 425, 1000 ppm (mg/L)
4-in-1 City Water Check, 6 pkts of 1	481113-6	pH: 2.0, 4.0, 5.0, 6.5, 8.5, 9.5, 10.5, 12.0 Total Alkalinity: 0, 40, 80, 120, 180, 240, 500 ppm (mg/L) Total Chlorine: 0, 0.2, 1.0, 4.0, 10.0 ppm (mg/L) Total Hardness: 0, 50, 120, 250, 425, 1000 ppm (mg/L)
4-in-1 City Water Check Pro, 30 pkts of 1	481113-30	pH: 2.0, 4.0, 5.0, 6.5, 8.5, 9.5, 10.5, 12.0 Total Alkalinity: 0, 40, 80, 120, 180, 240, 500 ppm (mg/L) Total Chlorine: 0, 0.2, 1.0, 4.0, 10.0 ppm (mg/L) Total Hardness: 0, 50, 120, 250, 425, 1000 ppm (mg/L)

5-Way Water Check Test Strip

- Quick and easy measurement of five important water quality parameters on one strip
- Accurate and reproducible results for pH, Total Alkalinity, Free Chlorine, Total Chlorine, and Total Hardness
- Fast, semi-quantitative results in 30 seconds
- Single dip test procedure



480015

WaterWorks™ 5-Way Water Check
 Part Number 480015 Contains 50 Test Strips US Patent # 5490194

TEST PROCEDURE:
 1. Dip one strip in the water for 5 seconds with a gentle back and forth motion.
 2. Remove the strip, shake once, briskly, to remove excess water. Wait 25 seconds.
 3. Using the color chart, match pH, Total Hardness, Total Alkalinity, Free Chlorine, and Total Chlorine in this order. Complete color matching within 30 seconds.

IMPORTANT: Store in a cool, dry (below 30°C) place and away from direct sunlight.

Tests For:
 • Total Chlorine
 • Free Chlorine
 • Total Alkalinity
 • Total Hardness
 • pH

MATCH:
 Total Hardness - Match 5th
 0 25 50 120 250 425
 VERY HIGH HIGH OK LOW

Total Chlorine - Match 4th
 0 0.5 1 2 4 10
 HIGH HIGH OK LOW

Free Chlorine - Match 3rd
 0 0.5 1 2 4 10
 HIGH HIGH OK LOW

Total Alkalinity - Match 2nd
 0 40 80 120 180 240
 OK OK OK OK

pH (pad nearest handle) - Match 1st
 6.2 6.8 7.2 7.8 8.4
 LOW OK OK OK HIGH

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DESCRIPTION - TEST STRIPS	PRODUCT #	DETECTION LEVELS
5 Way Water Check, btl of 50	480015	Total Hardness: 0, 25, 50, 120, 250, 425 ppm (mg/L) <i>SEE SAMPLE LABEL</i> Total Chlorine: 0, 0.5, 1, 2, 4, 10 ppm (mg/L) Free Chlorine: 0, 0.5, 1, 2, 4, 10 ppm (mg/L) Total Alkalinity: 0, 40, 80, 120, 180, 240 ppm (mg/L) pH: 6.2, 6.8, 7.2, 7.8, 8.4
5 Way Water Check, 30 pkts of 1	480115	Total Hardness: 0, 25, 50, 120, 250, 425 ppm (mg/L) Total Chlorine: 0, 0.5, 1, 2, 4, 10 ppm (mg/L) Free Chlorine: 0, 0.5, 1, 2, 4, 10 ppm (mg/L) Total Alkalinity: 0, 40, 80, 120, 180, 240 ppm (mg/L) pH: 6.2, 6.8, 7.2, 7.8, 8.4

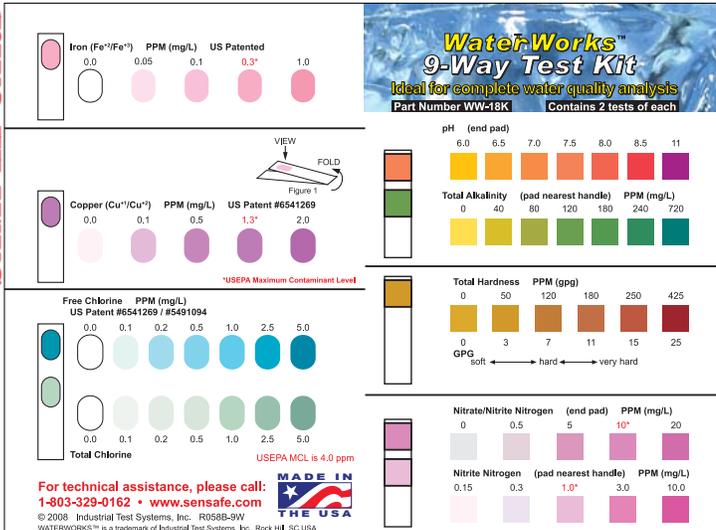
9-Way Water Check Test Strip Kit

- Designed to be the ideal testing solution for all users concerned with water quality
- Fast, semi-quantitative results in 4 minutes
- Single dip-and-read methods
- Accurate and reproducible results for pH, Total Alkalinity, Free Chlorine, Total Chlorine, Total Hardness, Iron, Copper, Nitrate, Nitrogen and Nitrite Nitrogen
- Safe, non-hazardous chemistry



WW-18K

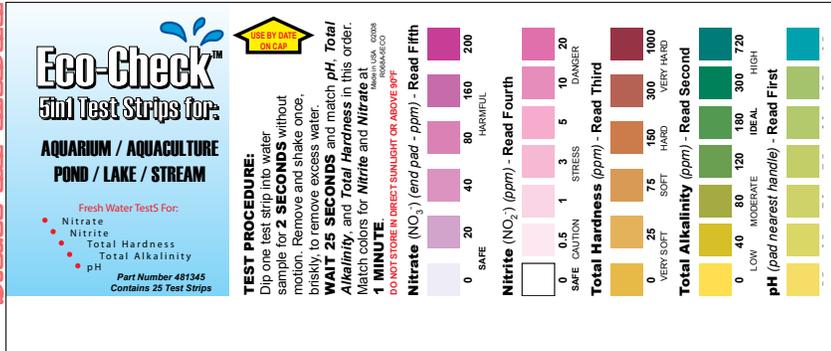
SAMPLE CARD



DESCRIPTION - TEST STRIPS	PRODUCT #	DETECTION LEVELS
9 Way Water Check, 18 pkts of 2	WW-18K	Total Chlorine: 0.0, 0.1, 0.2, 0.5, 1.0, 2.5, 5.0 ppm (mg/L) <i>SEE SAMPLE CARD</i> Free Chlorine: 0.0, 0.1, 0.2, 0.5, 1.0, 2.5, 5.0 ppm (mg/L) Total Alkalinity: 0, 40, 80, 120, 180, 240, 720 ppm (mg/L) Total Hardness: 0, 50, 120, 180, 250, 425 ppm (mg/L) Copper: 0.0, 0.1, 0.5, 1.3, 2.0 ppm (mg/L) Iron: 0.0, 0.05, 0.1, 0.3, 1.0 ppm (mg/L) Nitrate/Nitrite Nitrogen: 0, 0.5, 5, 10, 20 ppm (mg/L) Nitrite / Nitrogen: 0.15, 0.3, 1.0, 3.0, 10.0 ppm (mg/L) pH: 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 11

Eco-Check (NO₃⁻, NO₂⁻, ALK, TH & pH) Test Strip

SAMPLE LABEL



- Perfect test strip for identifying a water problem before it harms aquatic life
- Accurate and reproducible results for Nitrate, Nitrite, Total Alkalinity, pH, & Total Hardness
- Fast, semi-quantitative results in a minute
- Single dip-and-read method
- Safe, non-hazardous chemistry

481345



DESCRIPTION - TEST STRIPS	PRODUCT #	DETECTION LEVELS
ECO-Check, btl of 25	481345	Nitrate: 0, 20, 40, 80, 160, 200 ppm (mg/L) <i>SEE SAMPLE LABEL</i> Nitrite: 0, 0.5, 1, 3, 5, 10, 20 ppm (mg/L) Total Hardness: 0, 25, 75, 150, 300, 1000 ppm (mg/L) Total Alkalinity: 0, 40, 80, 120, 300, 720 ppm (mg/L) pH: 5.5, 6.5, 7.0, 7.5, 8.0, 8.5, 9.5

Home Water Quality Test Kit



487986

- 27 Tests (2 tests for 12 parameters and 1 test for Bacteria, Lead and Pesticide).
- An easy, safe, and economical way to test for several of the most common contaminants found in drinking water.
- Clear instructions, no harsh chemicals are used, no expensive equipment is required, and results are easy to see.
- The perfect kit for yearly home water quality testing.
- Includes Immunoassay tests for Lead and Pesticide.
- Tests based on recognized methods.

DESCRIPTION - TEST STRIPS	PRODUCT #	DETECTION LEVELS
Home Water Quality Test Kit	487986	Bacteria, Lead and Pesticide - Positive/Negative Immunoassay tests Copper: 0.0, 0.1, 0.5, 1.0, 2.0 ppm Chloride: 0, 250, 500 ppm Free Chlorine: 0, 0.05, 0.2, 0.6, 1.5, 4.0, 10 ppm (mg/L) Iron (Fe ²⁺): 0.0, 0.05, 0.1, 0.3, 1.0 ppm Hydrogen Sulfide: 0.0, 0.3, 0.5, 1.0, 2.0 ppm Sulfate: 0, 250, >500 ppm Total Hardness: 0, 50, 120, 250, 425, 1000 ppm (mg/L) Total Chlorine: 0, 0.2, 1.0, 4.0, 10.0 ppm (mg/L) Total Alkalinity: 0, 40, 80, 120, 180, 240, 500 ppm (mg/L) pH: 2.0, 4.0, 5.0, 6.5, 8.5, 9.5, 10.5, 12.0 ppm Total Nitrate: 0, 2, 10, 20, 50 ppm Total Nitrite: 0, 0.2, 1.0, 1.5, 3.0 ppm

Complete Home Water Quality Test Kit



481199

- 25 Tests (2 tests for 12 parameters and 1 test for Bacteria).
- Rapid, comprehensive results that help to ensure safe drinking water without sacrificing cost.
- Water quality tests valued at over \$350 (approximate laboratory costs).
- Clear instructions, no harsh chemicals are used, no expensive equipment is required, and results are easy to see.

DESCRIPTION - TEST STRIPS	PRODUCT #	DETECTION LEVELS
Complete Water Quality Test Kit	481199	Bacteria: Positive/Negative Immunoassay test Copper: 0.0, 0.1, 0.5, 1.0, 2.0 ppm Chloride: 0, 250, 500 ppm Free Chlorine: 0, 0.05, 0.2, 0.6, 1.5, 4.0, 10 ppm (mg/L) Iron (Fe ²⁺): 0.0, 0.05, 0.1, 0.3, 1.0 ppm Hydrogen Sulfide: 0.0, 0.3, 0.5, 1.0, 2.0 ppm Sulfate: 0, 250, >500 ppm Total Hardness: 0, 50, 120, 250, 425, 1000 ppm (mg/L) Total Chlorine: 0, 0.2, 1.0, 4.0, 10.0 ppm (mg/L) Total Alkalinity: 0, 40, 80, 120, 180, 240, 500 ppm (mg/L) pH: 2.0, 4.0, 5.0, 6.5, 8.5, 9.5, 10.5, 12.0 ppm Total Nitrate: 0, 2, 10, 20, 50 ppm Total Nitrite: 0, 0.2, 1.0, 1.5, 3.0 ppm

Bacteria Check Kit



481198

- 5 Tests (2 tests for 3 parameters and 1 test for Bacteria).
- The first drinking water quality test kit to test for the 4 major concerns in water: Bacteria, Nitrates, Nitrites, & Ammonia.
- Highly accurate and extremely affordable.
- Clear instructions, no harsh chemicals are used, no expensive equipment is required, and results are easy to see.

DESCRIPTION - TEST STRIPS	PRODUCT #	DETECTION LEVELS
Bacteria Check Kit	481198	Ammonia: 0.2, 1.0, 2.0, 5.0 ppm Bacteria - Positive/Negative Immunoassay tests Total Nitrate: 0, 2, 10, 20, 50 ppm Total Nitrite: 0, 0.2, 1.0, 1.5, 3.0 ppm

WaterWorks™ School Test Kit



487995

- Perfect for classroom science experiments
- Designed for 30 students with a total of 540 tests.
- 11 educational classroom activities and experiments including creating water cycles and testing for acid rain.
- Kit also tests for Nitrates, Nitrites, Total Hardness, Total Alkalinity, Total Chlorine, Free Chlorine, Copper, Iron, & pH and comes with an easy to follow activity booklet.

DESCRIPTION - TEST STRIPS	PRODUCT #	DETECTION LEVELS
WaterWorks™ School Test Kit	487995	Ammonia: 0.2, 1.0, 2.0, 5.0 ppm Bacteria - Positive/Negative Immunoassay tests Total Nitrate: 0, 2, 10, 20, 50 ppm Total Nitrite: 0, 0.2, 1.0, 1.5, 3.0 ppm

Well Driller's Test Kit (Master and Standard)



487989

Well Driller's Master Kit Includes:

50 Free Chlorine Test Strips, 50 Ultra Low Total Chlorine Test Strips, 50 Hydrogen Sulfide Test Strips, 50 Total Hardness Test Strips, 50 Nitrate/Nitrite Test Strips, 50 pH Test Strips, 24 Manganese Tests, 50 Water Metals Test Strips, 10 Arsenic Test Strips, 50 Total Iron Test Strips, 50 Copper Test Strips, 2 Lead in Water Tests, 2 Pesticide Tests, 1 bottle of Bacteria Test



487988

Well Driller's Standard Kit Includes:

50 Free Chlorine Test Strips, 50 Ultra Low Total Chlorine Test Strips, 50 Hydrogen Sulfide Test Strips, 50 Total Hardness Test Strips, 50 Iron Test Strips, 50 Nitrate/Nitrite Test Strips, 50 pH Test Strips, 24 Manganese Tests, 50 Water Metals Test Strips, 1 bottle of Bacteria Test



0.1 ppm Free Chlorine Detection

U.S. PATENTED TECHNOLOGY # 5491094 # 6541269

Only EPA Approved Test Strip

U.S. PATENTED TECHNOLOGY # 5491094 # 6541269

USEPA APROBÓ CLORO LIBRE ITS método D99-003 (Revision 3, Nov. 21, 2003).



Low Chlorine Pool Check® 3 in 1

Part # 481338 Retail Price \$10.39 50 Tests

DETECTION LEVELS:

Free Chlorine: 0, 0.1, 0.25, 0.5, 1.0, 3.0, 6.0, 10.0 mg/L
pH: 6.0, 6.4, 6.8, 7.2, 7.6, 8.2, 9.0
Total Alkalinity: 0, 40, 80, 120, 180, 240, 360, 720 mg/L



SenSafe™ Free Chlorine Water Check

Part # 481026 Retail Price \$17.99 50 Tests

DETECTION LEVELS:

Free Chlorine: 0, 0.05, 0.1, 0.2, 0.4, 0.6, 0.8, 1.2, 1.5, 2.0, 2.6, 4.0, >6.0 ppm mg/L



U.S. PATENTED TECHNOLOGY # 5491094

Pool Check® 3 in 1

Part # 481335 Retail Price \$7.39 50 Tests

DETECTION LEVELS:

Free Chlorine: 0, 0.5, 1, 3, 5, 10, 20 mg/L
pH: 6.0, 6.4, 6.8, 7.2, 7.6, 8.2, 9.0
Total Alkalinity: 0, 40, 80, 120, 180, 240, 360 mg/L

Low Detection Levels



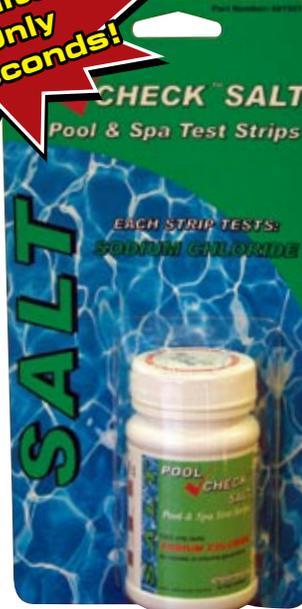
Pool Check® Copper 3 in 1

Part # 481348 Retail Price \$10.39 50 Tests

DETECTION LEVELS:

Copper: 0, 0.2, 0.4, 0.7, 1, 2 mg/L
pH: 6.0, 6.4, 6.8, 7.2, 7.6, 8.2, 9.0
Total Alkalinity: 0, 40, 80, 120, 180, 240, 360 mg/L

Results In Only 22 Seconds!



Pool Check® Salt

Part # 482341 Retail Price \$7.39 16 Tests

DETECTION LEVELS:

Salt: 1500, 2000, 2500, 3000, 4000, 5000, 6000, 7000 ppm mg/L
Also Available by Special Order: 1000, 1500, 2000, 2500, 3000, 3500 ppm mg/L



U.S. PATENTED TECHNOLOGY # 5491094

Pool Check® 5 in 1

Part # 481339 Retail Price \$8.99 50 Tests

DETECTION LEVELS:

Free Chlorine: 0, 0.5, 1, 3, 5, 10 mg/L
Total Chlorine / Total Bromine: 0, 0.5, 1, 3, 5, 10 mg/L
pH: 6.0, 6.8, 7.2, 7.6, 8.2, 9.0
Total Alkalinity: 0, 40, 80, 120, 180, 240 mg/L
Total Hardness: 0, 50, 120, 200, 400, 1000 mg/L



Pool Check® 4 in 1

Part # 481341 Retail Price \$8.39 50 Tests

DETECTION LEVELS:

Free Chlorine: 0, 0.5, 1, 3, 5, 10 mg/L
 Total Chlorine / Total Bromine: 0, 0.5, 1, 3, 5, 10 mg/L
 pH: 6.0, 6.8, 7.2, 7.6, 8.2, 9.0
 Total Alkalinity: 0, 40, 80, 120, 180, 240 mg/L



Spa Check™ MPS 3 in 1

Part # 481340 Retail Price \$7.59 50 Tests

DETECTION LEVELS:

Monopersulfate (MPS): LOW, OK, HIGH
 pH: 6.0, 6.4, 6.8, 7.2, 7.6, 8.2, 9.0
 Total Alkalinity: 0, 40, 80, 120, 180, 240, 360 mg/L



Spa Check™ 3 in 1

Part # 481336 Retail Price \$7.39 50 Tests

DETECTION LEVELS:

Total Bromine: 0, 1, 3, 6, 9, 12, 20 mg/L
 pH: 6.0, 6.4, 6.8, 7.2, 7.6, 8.2, 9.0
 Total Alkalinity: 0, 40, 80, 120, 180, 240, 360 mg/L



Pool Check® 6 in 1

Part # 481330 Retail Price \$9.49 50 Tests

DETECTION LEVELS:

Free Chlorine: 0, 0.5, 1, 3, 5, 10 mg/L
 Total Chlorine / Total Bromine: 0, 0.5, 1, 3, 5, 10 mg/L
 pH: 6.0, 6.8, 7.2, 7.6, 8.2, 9.0
 Total Alkalinity: 0, 40, 80, 120, 180, 240 mg/L
 Total Hardness: 0, 50, 120, 200, 400, 1000 mg/L
 Cyanuric Acid: 0, 30-50, 100, 150, 300 mg/L



Pool Check® Phosphate

Part # 481349 Retail Price \$11.99 50 Tests

DETECTION LEVELS:

Phosphate: 0, 200, 400, 600, 1000, 2500 µg/L



Pool Check® TDS

Part # 481347 Retail Price \$8.79 35 Tests

DETECTION LEVELS:

Total Dissolved Solids: 0, 500, 1500, 3000, 5000 mg/L

* Multilingual packaging includes: French, German, Spanish, Italian, Portuguese, & English - available on blistered products only.





EXACT PHOTOMETERS

eXact®

Accurate, Fast and easy Patented Photometer System

- Pool & Spa Kit (Shown) Includes:
- eXact® Micro 7+ Meter
 - eXact® Strip Micro DPD-1
 - eXact® Strip Micro DPD-3
 - eXact® Strip Micro pH
 - eXact® Strip Micro Total Alkalinity
 - eXact® Strip Micro Calcium Hardness
 - eXact® Strip Micro Copper
 - eXact® Reagent Cyanuric Acid
 - Mixing Cap
 - Cell Cleaning Brush
 - Instruction Booklet
 - Plastic Carrying Case
 - AAA Batteries (4)

Kit Part No.: 486691-KP



3 FT 6 IN

3 FT 6 IN

exact[®]
MICRO7+

exact[®]
MICRO8

exact[®]
LEADQUICK[™]

COLORIMETERS



Launched:
Wavelength:
Parameters:

	EXACT MICRO7+	EXACT MICRO8	EXACT CHLORINE	EXACT MICRO8	EXACT LEADQUICK
Launched:	December 2008	June 2009	December 2009	December 2009	December 2009
Wavelength:	525nm	525nm	525nm	638nm	476nm
Parameters:	Alkalinity, Total Bromine (DPD-1) Calcium (as CaCO ₃) Chlorine, Free (DPD-1) Chlorine, Total (DPD-3) Chlorine, Total (DPD-4) Copper (Cu ²⁺) Ozone (DPD-4) Permanganate (DPD-1) pH <hr/> Ammonia Chloride (as NaCl) 1:40 Dilution of sample (NaCl) Chlorine Dioxide (DPD-1) Chromium Hexavalent Cyanuric Acid Fluoride Hydrazine Hydrogen Peroxide LR Hydrogen Peroxide MR Hydrogen Peroxide HR Iodine (DPD-1) Iron, Ferrous (Fe ²⁺) Total Iron, TPTZ (Fe ²⁺ /Fe ³⁺) Total Iron, Ferro (Fe ²⁺ /Fe ³⁺) LR Total Hardness (as CaCO ₃) Magnesium Manganese Nitrate (as NO ₃) Nitrite (as NO ₂) pH, Acid pH, Alkali Potassium Protein (as Albumin) Sulfate Sulfide Turbidity	Alkalinity, Total Bromine (DPD-1) Calcium Chlorine, Free (DPD-1) Chlorine, Total (DPD-3) Copper Cyanuric Acid pH	Chlorine, Free (DPD-1) Chlorine, Total (DPD-3)	Ammonia BT-pH Cyanide Iron, Ferrous (Fe+2) Phosphate Sulfide Total Iron, TPTZ (Fe+2/Fe+3) <hr/> Alkalinity, Total Biguanide Calcium (as CaCO ₃) Chloride (as NaCl) Cyanuric Acid Magnesium CG-pH Potassium Protein (as BSA) Sulfate (as SO ₄) Turbidity	Lead in Paint Lead in Soil Lead in Water Cadmium Mercury
	#486691	#486692	#486696-U	#486800	#486900

11/04/09

eXact® Micro 7+ 525 nm Photometer

Announcing our latest patented photometer, the eXact® Micro 7+ for all your On-Site water testing needs...



TAKE SAMPLE



DIP STRIP



READ



eXact®
MICRO 7+



WATERPROOF



- Directly read: Total Alkalinity, Bromine, Calcium Hardness, Free Chlorine, Total Chlorine, Copper, Ozone, pH, Permanganate, and % Transmission
- Tests for 36 total parameters (See Chart)
- Uses patented technologies (U.S. Patent 7333194 and 7491546)
- 0.01 ppm (mg/L) precision
- Built in cell and countdown timer
- Waterproof meter (IP-67)
- Uses rapid, safe **DPD** delivery method
- Environmentally friendly - 60% less reagents than 10ml sample volume.
- Accurate, reliable results
- Used in emergency disasters, humanitarian efforts and military operations
- 5-Year warranty with satisfaction guarantee
- 20-Test memory for each menu (140 total)
- No-slip grip

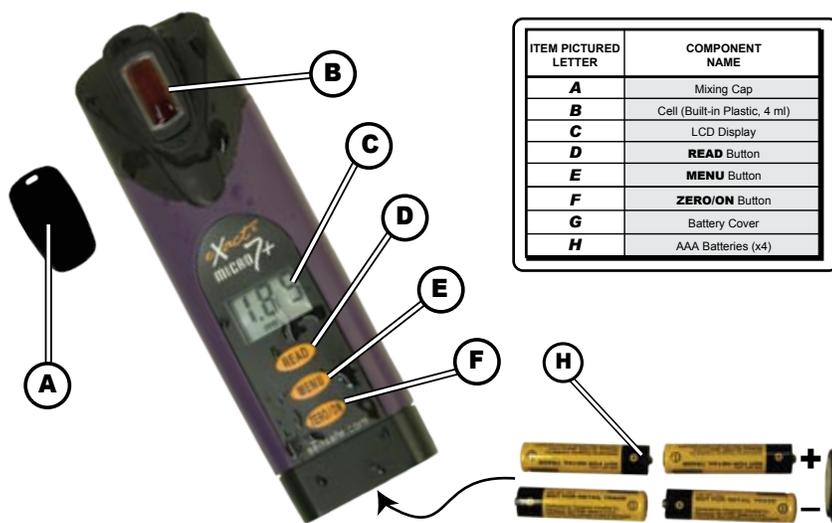
eXact Micro 7+ Kits

Standard Kit Includes (486691-K): 1 eXact® Micro 7+ Meter, eXact® Strip Micro DPD-1, eXact® Strip Micro DPD-3, eXact® Strip Micro pH, eXact® Strip Micro Total Alkalinity, eXact® Strip Micro Calcium Hardness, eXact® Strip Micro Copper, 1 Mixing Cap, 1 Cell Cleaning Brush, Lanyard, Plastic Carrying Case, AAA Batteries (4)

Pool/Spa Kit Includes (486691-KP): All the products in the standard kit and eXact® Reagent Cyanuric Acid

Pond and Aquarium Kit Includes (486691-AQ): All the products in the standard kit and eXact® Micro Nitrate, eXact® Micro Nitrite and eXact® Micro Ammonia

Well Driller Kit Includes (486691-WD): All the products in the standard kit and eXact® Reagent Iron and eXact® Micro Manganese



ITEM PICTURED LETTER	COMPONENT NAME
A	Mixing Cap
B	Cell (Built-in Plastic, 4 ml)
C	LCD Display
D	READ Button
E	MENU Button
F	ZERO/ON Button
G	Battery Cover
H	AAA Batteries (x4)

eXact® Micro 7+ Specifications

Menu	Tests for	Range	Resolution	+/- Accuracy
CL1	Free Chlorine (DPD-1) & Total Chlorine (DPD-3)	0.00 - 6.0 ppm	0.01 (0.00 - 2.39 ppm)	0.02
			0.1 (2.4 - 6.0 ppm)	0.1, or 4%
PH2	pH	6.2-8.4 pH	0.1	0.3
BR3	Bromine (DPD-1)	0.00-9.0 ppm	0.01 (0.00 - 1.99 ppm)	0.03
			0.1 (3.0 - 9.0 ppm)	0.1, or 4%
AL4	Total Alkalinity	20-180 ppm	1	25
CA5	Calcium as CaCO ₃	20-990 ppm	10	20 or 7%
CU6	Copper (Cu ²⁺)	0.00-8.0 ppm	0.01 (0.00 - 2.99 ppm)	0.02
			0.1 (3.0 - 8.0 ppm)	0.1 or 4%
TR7	Transmission (29 other test parameters)	99.9-0.01 %T	0.1 (99.9 - 10.0 %T)	0.1
			0.01 (9.99 - 0.01 %T)	0.01

17 Other test parameters use the TR7 Menu (see below for test parameters available).

eXact® MICRO 7+ REAGENTS

For use in accordance with U.S. Patent Nos. 7333194 and 7491546

No.	PARAMETER/PRODUCT	PART NUMBER	# OF TESTS	DETECTION RANGE	CHEMISTRY
	eXact Micro 7+ Meter Kit	486691-K	N/A	N/A	N/A
	eXact Micro 7+ Pool Kit	486691-KP	N/A	N/A	N/A
	eXact Micro 7+ Well Driller Kit	486691-WD	N/A	N/A	N/A
	eXact Micro 7+ Aquarium Kit	48691-AQ	N/A	N/A	N/A
1	Alkalinity, Total	486641	100	20 - 180 ppm	Alizarin Red S + Citrate
2	Bromine (DPD-1)	486637	100	0.01 - 9.0 ppm	DPD
3	Calcium (as CaCO ₃)	486629	50	20 - 990 ppm	Oxalic Acid
4	Chlorine, Free (DPD-1)	486637	100	0.01 - 6.0 ppm	DPD
5	Chlorine, Total (DPD-3)**	486638	100	0.01 - 6.0 ppm	KI
6	Chlorine, Total (DPD-4)	486670	100	0.01 - 6.0 ppm	DPD + KI
7	Copper (Cu ²⁺)	486632	50	0.04 - 8.0 ppm	Biquinoline
8	Ozone (DPD-4)	486670	100	0.01 - 10.0 ppm	DPD + KI
9	Permanganate (DPD-1)	486637	100	0.01 - 4.5 ppm	DPD
10	pH	486639	100	6.2 - 8.4	Phenol Red
11	Ammonia*	483343-M	25	0.03 - 5.8 ppm	Salicylate Method
12	Chloride (as NaCl)* 1:40 Dilution of sample	481657	25	3 - 285 ppm 100 - 11000 ppm	Silver (ppt)
13	Chlorine Dioxide (DPD-1)*	486637	100	0.03 - 6.5 ppm	DPD
14	Chromium Hexavalent*	486614	50	0.02 - 7.0 ppm	Diphenylcarbazide
15	Cyanuric Acid*	481652	130	5 - 62 ppm	Melamine (ppt)
16	Fluoride*	486643	25	0.1 - 1.1 ppm	SPADNS
17	Hydrazine*	486649	50	1 - 2.0 ppm	4-Dimethylaminocinnamaldehyde
18	Hydrogen Peroxide LR*	486616	50	0.01 - 4 ppm	DPD + PO ₄ + MoO ₄ + KI
19	Hydrogen Peroxide MR*	486648	50	0 - 42 ppm	DPD + MoO ₄ + KI + acid
20	Hydrogen Peroxide HR*	486670	100	10 - 1000 ppm	DPD + KI
21	Iodine (DPD-1)*	486637	100	0.01 - 10 ppm	DPD
22	Iron, Ferrous (Fe ²⁺)*	486631	50	0.03 - 2.20 ppm	TPTZ
23	Total Iron, TPTZ (Fe ²⁺ /Fe ³⁺)*	486650	50	0.03 - 2.20 ppm	TPTZ + PP
24	Total Iron, Ferro (Fe ²⁺ /Fe ³⁺)*	486651	50	0.05 - 3.5 ppm	1,10 Phenanthroline
25	LR Total Hardness (as CaCO ₃)*	486630	100	2 - 77 ppm	Phthalein Purple
26	Magnesium*	486647	50	0 - 130 ppm	Ammonium Phosphate (ppt)
27	Manganese*	486606	24	0.03 - 1.5 ppm	PAN + Cyanide
28	Nitrate (as NO ₃)*	486617	50	13 - 140 ppm	Zinc Reduction
29	Nitrite (as NO ₂)*	486623	50	0.05 - 3.5 ppm	Chromotropic Acid
30	pH, Acid*	486624	50	3.0 - 6.2	Alizarin Red S
31	pH, Alkali*	486609	50	8.3 - 9.6	Thymol Blue
32	Potassium*	486621	50	1.0 - 10.0 ppm	Tetraphenylborate
33	Protein (as Albumin)*	486620	50	0.3 - 16.0 mg/L	Sulfosalicylic Acid
34	Sulfate*	486608	50	1 - 100 ppm	Barium (ppt)
35	Sulfide*	486646	50	0.1 - 13 ppm	NPS
36	Turbidity*	None	No Reagent	3 - 580 NTU	Turbidity

* Results utilize the Tr-7 (Transmission) meter function and require the use of a conversion table. See respective test procedures for more information and tables.
 ** Total Chlorine DPD-3 Test requires Free Chlorine DPD-1 (486637) to be run first. All products sold in case quantities (12 units per case)

eXact® Micro 7+ 638 nm Photometer

On-Site testing for Ammonia, Cyanide Phosphate and more



- Directly read:
Ammonia, Cyanide, Iron (Fe⁺² or Total), Phosphate, Sulfate, Sulfide, and Transmission
- Tests for 17 total parameters (see chart below)
- Uses patented technology (U.S. Patent 7333194)
- 0.01 ppm (mg/L) resolution
- Count down and count up timer
- Waterproof meter (IP-67)
- Uses 60% less reagents than most 10mL sample tests
- Accurate, reliable results
- 20-Test memory for each menu (140 total)
- 5-Year warranty with satisfaction guarantee
- Total Iron test requires use of powder pillows



Test	Test Range	Resolution/Accuracy
Iron	0.01 – 8.0ppm	0.01/0.03
Phosphate	0.01 – 2.00ppm	0.01/0.04
pH	5.0 – 8.5	0.1/0.3

Measurement Method:	Photometric/Colorimetric
Light Source:	Light Emitting Diode (LED)
Wavelength:	638 nm
Transmission Range:	100 - 0.00 %T
Photometric Precision:	+/- 0.1/0.01 %T
Display:	3-digit customized liquid crystal display
CELL Pathlength:	20mm
Cell Chamber:	Custom-molded, plastic fused into chamber
Sample Required:	4 ml (0.13 oz)
Operating Temperature Range:	0 - 50°C (32° - 122°F)
Power Supply:	(4) AAA alkaline batteries
Battery Life:	>2000 tests with alkaline batteries
Electromagnetic Compliance: (EMC)	Emitted Interference - EN 61326 Immunity to Interference - EN 61326
Waterproof Rating:	Exceeds IP67
Weight:	Instrument: 140 g (5 oz)
Dimensions:	Instrument: 2 (W) x 1.4 (D) x 6.375 (H) in;
Warranty:	5 years

eXact® MICRO REAGENTS

No.	PARAMETER/PRODUCT	PART NUMBER	# OF TESTS	DETECTION RANGE	CHEMISTRY
	eXact® Micro 8 (meter only)	486800	N/A	N/A	N/A
	Carrying case with foam	486001	N/A	N/A	N/A
1	Cyanide	486812	50	0.00 - 5.2 ppm	Isonicotinic/Barbituric Acid
2	Total Iron, TPTZ (Fe ⁺² /Fe ⁺³)	486650	50	0.00 - 8.0 ppm	TPTZ + Reducer
3	Iron, Ferrous (Fe ⁺²)	486631	50	0.03 - 3.80 ppm	Melamine (ppt)
4	Ammonia	483343-M	25	0.03 - 1.4 ppm	Salicylate method
5	Phosphate	486814	50	0 - 3.7 ppm	Molybdate Method
6	BT-pH	486652	100	5 - 10	Bromothymol blue + Thymol blue
7	Sulfide	486818	50	0.01 - 0.8 ppm	DPD Reagent / FeCl ₃
8	Transmission	N/A	N/A	N/A	N/A
9	Alkalinity, Total*	486816	50	20 - 180 ppm	Alizarin Red S + Citrate
10	Biguanide*	486810	50	5 - 90 ppm	Bromophenol Blue
11	Calcium (as CaCO ₃)*	486629	50	20 - 900 ppm	Oxalic Acid
12	Chloride (as NaCl)*	481657	25	3 - 300 ppm	Silver (ppt)
13	Cyanuric Acid*	481652	130	5 - 90 ppm	TPTZ
14	Magnesium*	486813	50	0.2 - 20 ppm	Ammonium Phosphate (ppt)
15	CG-pH	486817	50	5.3 - 2.7	Bromocresol Green
16	Potassium*	486621	50	1 - 10 ppm	Tetraphenylborate
17	Protein (as BSA)*	486620	50	Coming Soon	Sulfosalicylic Acid
18	Sulfate (as SO ₄)*	486608	50	1 - 125 ppm	Barium (ppt)
19	Turbidity*	None	No Reagent	3 - 580 NTU	Turbidity

* Results utilize the Tr-7 (Transmission) meter function and require the use of a conversion table. See respective test procedures for more information and tables. For resellers and distributors products sold in case quantities (12 units per case).

PRICES & SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE. ALL PRICES IN USD.

VISIT OUR WEBSITE - WWW.SENSAFE.COM FOR MORE DETAILS ON THIS PRODUCT

eXact® LEADQuick 476 nm Photometer

On-Site testing for Lead in Water, Paint and Soil



Part # 486901

- Quick results with fewer steps
- Minimum interferences
- 3 ppb (µg/L) or .03 µg lead detection
- Accurate, reliable results
- Affordable (as little as \$2 per test)
- Uses patented technology (U.S. Patent 7333194)
- 5-Year warranty with satisfaction guarantee

PRODUCT
eXact® LEADQuick™ Photometer **PART #**
486900

Meter only for use with reagents sets below

Carrying case with foam **486001**

Lead in WATER Screening Method: Acid treat water sample; then fill the cell; next add buffer drop to sample and react the sample with TMPYP indicator (colorimetric reaction at 476nm) and measure Lead in WA1 MENU. Detect 3 to 300 µg/L (accuracy ± 4 µg/L or ± 4%) in 5 minutes.

PRODUCT	PART #	TESTS
eXact® LEADQuick™ Lead in Water Test Kit	486900-W	25
Kit includes eXact® LEADQuick™ Photometer (486900), carrying case and reagents (486901)		

eXact® LEADQuick™ Lead in Water Reagent Set (For use with 486900)	486901	25
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LEADQuick™ Lead in Water Reagent Set 10 mL for HACH®	488375	25
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For use with HACH® LeadTrak™ Colorimeter II and is replacement for HACH® LeadTrak™ #5870021 reagent set
The HACH® Company, LeadTrak™ Pocket Colorimeter™ II and all other HACH® products trademarks, service marks, trade names, logos, domain names, URLs and icons ("Mark" appearing on this brochure, registered or not, are the property of HACH Company Inc., Loveland, CO., USA

Lead in SOIL Screening Method: 5 Minute extraction of 0.14 grams of soil with 14% Nitric Acid Reagent; followed by a 1/4000 dilution or higher of extraction (this negates typical soil ion interferences); and test in SL2 MENU using eXact® LeadQuick™ system. Method screens soils on-site for Lead (Pb²⁺) from 10 to 100,000 mg/kg quickly and accurately.

PRODUCT	PART #	TESTS
eXact® LEADQuick™ Lead in Soil Reagent Set (For use with 486900)	486902	25

Lead in PAINT Screening Method: 1/2" diameter core of paint is drilled (50mg) and sample is homogenized with Nitric acid; then diluted (1/5000) for analysis in PT3 MENU. This test kit was developed to test around the 1.0mg lead/cm² limit of lead in paint, which is identified as the regulated level of lead in paint in the US EPA Lead; Renovation, Repair, and Painting rule (40 CFR Part 745). Method allows on-site Lead determination in paint from 0.02 to 1.4 mg (or higher by additional dilution of sample) Lead per cm² with accuracy with LeadQuick meter or by visual method. Levels by meter can also be determined as %Lead from 0.02 to 70%. Some accessories must be purchased separately.

eXact® LEADQuick™ Lead in Paint Reagent Set (For use with 486900)	486903	50
LEADQuick™ Lead in Paint Visual Test Kit (does not require 486900)	487925-V	25

ABS MENU (additional feature of #486900) allows you to prepare your own calibration curve for other Lead testing variations and applications by using Part. No. 486901



North America Ordering Information:

BUSINESS HOURS:
Monday-Friday
8:00 AM TO 4:30 PM EST

TELEPHONE ORDERS:
(800) 861-9712
(803) 329-9712

FAX ORDERS (24/7):
(803) 329-9743

INTERNET ORDERS (24/7):
weborders@sensafe.com

PHYSICAL ADDRESS:
Industrial Test Systems, Inc.
1875 Langston Street
Rock Hill, SC 29730-7418
www.sensafe.com
www.poolcheckonline.com



European Ordering Information:

BUSINESS HOURS:
8:00 AM TO 4:30 PM GST

TELEPHONE ORDERS:
+44 (0) 1722 329502

FAX ORDERS (24/7):
+44 (0) 1722 329880

INTERNET ORDERS (24/7):
sales@sensafe.com

PHYSICAL ADDRESS:
ITS EUROPE, LTD
The UK Centre for Homeland Security
Chilmark
Salisbury
Wiltshire United Kingdom
SP3 5DU
www.itseurope.co.uk



Patented Test Strip Technology			
Bromine	Part No.	Tests	Description / Detection Levels
Bromine Check *	480001	50	Method A: 0.0, 0.5, 1.0, 2.0, 3.0, 4.0, 5.0 ppm (mg/L) Method B: 0.00, 0.05, 0.10, 0.25, 0.50, 0.75 ppm (mg/L)
Bacteria			
Bacteria Check	481197	12	48 hour Presence / Absence of total coliforms for 100mL sample
EZ Coliform Cult * NEW*	487197	12	24 hour Presence / Absence coliform w/ fluorescent <i>E. coli</i> /confirmation
18-Minute Bacteria	487999	2	18 minutes presence / absence bacteria test at 1000 cfu/mL
Chloride			
Chloride Check	481027	50	0, 50, 100, 250, 500 ppm (mg/L)
Chlorine Dioxide			
Chlorine Dioxide LR *	481028	50	Method A: 0, 0.1, 0.2, 0.4, 0.6, 0.8, 1, 1.2, 1.4, 1.6 ppm (mg/L) Method B: 0.00, 0.05, 0.1, 0.15, 0.2, 0.3 ppm (mg/L)
Chlorine Dioxide	480031	50	0.5, 2, 5, 10, 25, 50, 100 ppm (mg/L)
Free Chlorine			
Free Chlorine *	480002	50	Method A: 0.0, 1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0 ppm (mg/L) Method B: 0.0, 0.05, 0.1, 0.2, 0.4, 0.6, 0.8, 1, 1.2, 1.4, 1.6 ppm (mg/L)
Free Chlorine Check *	480023	50	0, 0.25, 0.5, 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 15, 20, 25 ppm (mg/L)
Free Chlorine Water Check (EPA) *	481026	50	0.0, 0.05, 0.1, 0.2, 0.4, 0.6, 0.8, 1.2, 1.5, 2.0, 2.6, 4.0, >6.0 ppm (mg/L)
Free Chlorine Sanitizer Check	481130	30	0, 1, 3, 5, 10, 12, 15, 20, 40, 80 ppm (mg/L)
Free Chlorine High Range	480022	50	0, 1, 2, 5, 10, 20, 40, 80, 120 ppm (mg/L)
Free Chlorine Check Ultra High	480024	50	0, 25, 50, 100, 200, 300, 400, 500, 750 ppm (mg/L)
Free Chlorine Check Ultra High II	480124	50	0, 25, 50, 200, 500, 800, 1100, 1500, 2000 ppm (mg/L)
Total Chlorine			
Total Chlorine *	480010	50	Method A: 0.0, 0.1, 0.2, 0.5, 0.8, 4.0, 10.0 ppm (mg/L) Method B: 0.0, 0.05, 0.1, 0.15, 0.2, 0.5, 0.8, 1.0, 4.0, 10.0 ppm (mg/L)
Ultra Low Total Chlorine *	480007	30	Method A: 0.0, 0.01, 0.02, 0.05, 0.1, 0.15, 0.2 ppm (mg/L) Method B: 0.0, 0.005, 0.01, 0.015, 0.02, 0.025, 0.05 ppm (mg/L)
Total Chlorine High Range	480033	50	0, 5, 10, 20, 30, 40, 60, 80 ppm (mg/L)
Free & Total Chlorine *	480655	30	0, 0.1, 0.2, 0.5, 1.0, 2.5, 5.0 ppm (mg/L)
Hydrogen Peroxide			
Peroxide Check™ (H ₂ O ₂)	480014	50	0, 0.5, 2.0, 5.0, 10, 25, 50, 100 ppm (mg/L)
Peroxide Check™, Low Range *	481015	50	0.05, 0.3, 0.5, 1.0, 2.0, 4.0 ppm (mg/L)
Peroxide Check™, High Range *	481116	30	0, 200, 400, 800, 1600, 2500, 5000, 10000, 30000 ppm (mg/L)
Hydrogen Sulfide			
Hydrogen Sulfide Low Range	481197-20	30	0, 0.3, 0.5, 1.0, 2.0 ppm (mg/L)
Hydrogen Sulfide	481197-1	50	0, 5, 10, 20, 30, 40, 50, 60, 80 ppm (mg/L)
Hydrogen Sulfide Ultra-Low	481201	50	Method A: <0.005, 0.01, 0.02, 0.03, 0.05, 0.075, 0.1, 0.2 Method B: <0.05, 0.05, 0.075, 0.1, 0.2, 0.25, 0.3, 1.0 ppm (mg/L)
Iodine			
Iodine *	480018	50	Method A: 0.0, 0.5, 1.0, 2.0, 3.0, 4.0, 5.0 Method B: 0.0, 0.02, 0.05, 0.10, 0.20, 0.30, 0.40, 0.5, 1.0, 2.0, 3.0, 4.0, 5.0 ppm (mg/L)
Iodine Check High	480064	50	0, 5, 10, 15, 20, 30, 40, 50, 75, 100, 150, 200, 250, 300 ppm (mg/L)
Metals			
Chromium (chromate)	480047	50	<0.1, 0.25, 0.5, 1, 2.5, 5, 10, 25, 50 ppm (mg/L) as Chromium
Copper, (Cu+1/Cu+2)	480011	25	0, 0.5, 1.0, 2.0, 5.0 ppm (mg/L)
Copper, John's (Cu+1/Cu+2) *	480042	25	0, 0.05, 0.1, 0.2, 0.4, 1, 2 ppm (mg/L)
Iron, Ida's (Fe+2) *	481046	25	Method A: 0.0, 0.3, 1.0, 2.0, 5.0, 10, 20, 50 ppm (mg/L) Method B: 0.0, 0.005, 0.01, 0.03, 0.06, 0.1, 0.3 ppm (mg/L)
Iron Check, (Fe+2/Fe+3) *	480025	25	0, 0.02, 0.05, 0.1, 0.2, 0.3, 0.5, 0.75, 1.0, 2.0, 5.0 ppm (mg/L)
Lead, (Pb+2) (Requires Meter)	488375	25	3 to 600 ppb (µg/L)
Manganese Check (as Mn) *	481020	24	<0.02, 0.05, 0.1, 0.2, 0.4, 1.0, >1.6 ppm (mg/L)
Mercury Check *	480048	50	<50, 50, 100, 200, 500, 1,000 ppb (µg/L)
Mercury, Boris' *	480049	50	0, 0.002, 0.005, 0.01, 0.02, 0.04, 0.08 ppm (mg/L)
Silver Check II, High Range	480045	50	50, 100, 250, 500, 1000 ppb (µg/L)
Silver, Boris' w/bt Glycine *	480044	50	0, 0.005, 0.01, 0.025, 0.05, 0.075, 0.1 ppm (mg/L)
Water Metals Check *	480309	50	<10, 20, 50, 100, 200, 400, 1000 ppb (µg/L)
Zinc	480026	50	0, 2, 5, 10, 20, 40, 100 ppm (mg/L)
Nitrate/Nitrite			
Nitrate and Nitrite	480009	50	NO3: 0, 0.5, 2, 5, 10, 20, 50 NO2: 0.15, 0.3, 1, 1.5, 3, 10 ppm (mg/L)
Ozone			
Ozone Check *	481234	50	0, 0.05, 0.1, 0.2, 0.3, 0.4, >0.5 ppm (mg/L)
Total Hardness			
Total Hardness	480008	50	0, 40, 80, 120, 180, 250, 425, 1000 ppm (mg/L) OR: 0, 2, 5, 7, 11, 15, 25, 58 ppb
pH			
Extended Range pH Check	481104	50	2, 3, 4, 5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10, 11, 12
pH / Total Alkalinity	480005	50	pH: 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0 TA: 0, 40, 80, 120, 180, 240, 360 ppm (mg/L)

