

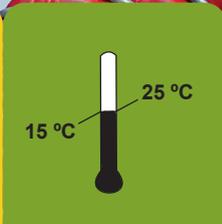
Lovibond® Water Testing

Tintometer® Group



Water Treatment Engineers Test Kit Visual

56I701300



Engineers Kit System

Monitoring of water quality in closed circuits, evaporative cooling systems and boiler systems is an essential part of any water treatment Engineers daily tasks.

It has been proven that testing industrial waters on a regular basis can mitigate risks and system issues before they become problematic; including early detection of corrosion, scale and biofouling. This early detection allows water treatment professionals to make assessments of system efficacy and integrity in a timely manner, enabling decisions on treatment programs to achieve optimal system performance

This test kit provides the user with the primary tests in order to complete their daily tasks.

Note:

Further instructions can be found with the corresponding product..

Alkalinity (P, M, OH)

56I700130

50 - 2400 mg/L CaCO₃

EN

Material

Reagents	Packaging Unit	Part Number
Alkalinity 4.5 Indicator TA4	65 mL	56L013865
Alkalinity LR Titrant TA3	65 mL	56L013965
Alkalinity HR Titrant PA2/TA2	65 mL	56L013665
Acidity / Alkalinity P Indicator PA1	65 mL	56L013565
Alkalinity OH Reagent PA3	65 mL	56L013765

The following accessories are required.

Accessories	Packaging Unit	Part Number
Syringe, plastic, 20 mL	1 pc.	56A006501
Titration jar with cap, plastic, 60 mL	1 pc.	56A006701

Preparation

Alkalinity Relationships:

The separate contributions to alkalinity from free caustic, carbonate and bicarbonate can be estimated using the P & M alkalinity relationship in the table below.

If	OH	CO ₃	HCO ₃
P = 0	0	0	M
P < M/2	0	2P	M-2P
P = M/2	0	2P	0
P > M/2	2P-M	2(M-P)	0
P = M	M	0	0

Notes

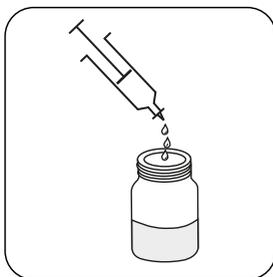
1. Alkalinity P: The P refers to phenolphthalein the indicator originally used for titrating P Alkalinity. The colour change occurs at pH 8.3. Less hazardous alternatives are now used.
2. Alkalinity M: The M refers to methyl orange, the indicator originally used for titrating Total Alkalinity. Nowadays 4.5 indicator is used but old M terminology has remained.
3. Alkalinity OH: Barium chloride precipitates with carbonate ions to produce a white precipitate in the test. the remaining alkalinity present in the same sample attributed to the presence of hydroxide ions (OH).

Sampling

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

Expected Range	Titrant used	Sample Size	Factor
50-150 mg/L	Alkalinity LR Titrant TA3	40 mL	5
100-300 mg/L	Alkalinity LR Titrant TA3	20 mL	10
200-600 mg/L	Alkalinity LR Titrant TA3	10 mL	20
200-600 mg/L	Alkalinity HR Titrant PA2TA2	40 mL	20
400-1200 mg/L	Alkalinity HR Titrant PA2TA2	20 mL	40
800-2400 mg/L	Alkalinity HR Titrant PA2TA2	10 mL	80

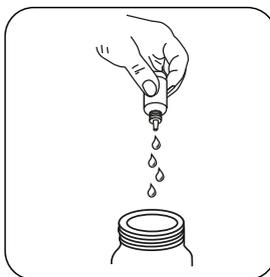
Determination of Alkalinity-P



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



Add drops of **Acidity / Alkalinity P Indicator PA1** to give a **pink** colour.
 Note: If sample remains colourless, report the P Alkalinity as zero.



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

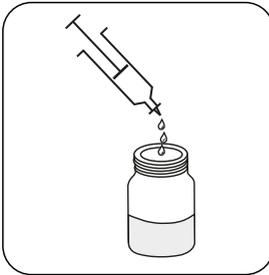
Note: Make sure to swirl the jar after adding each drop!



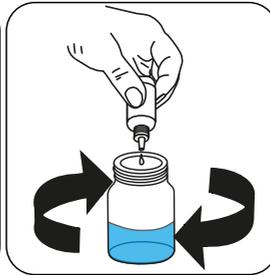
Add **Alkalinity LR Titrant TA3** or **Alkalinity HR Titrant PA2/TA2** drop by drop to the sample until discolouration turns from **pink to colourless**.

Calculate test result: P Alkalinity (as CaCO₃) mg/L = Number of drops x factor (see table)

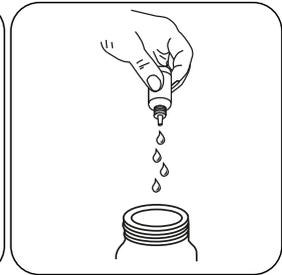
Determination of Alkalinity-M



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



Add drops of **Alkalinity 4.5 Indicator TA4** to give a **pure blue** colour.



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

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

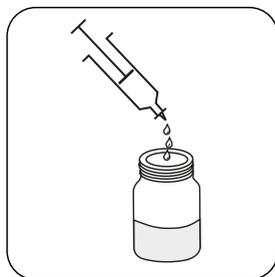


Add **Alkalinity LR Titrant TA3** or **Alkalinity HR Titrant PA2/TA2** drop by drop to the sample until colouration turns from **blue** to **orange/yellow**.

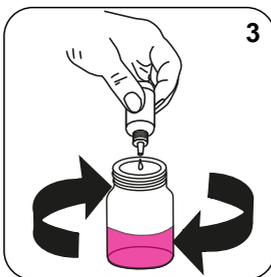
Calculate test result: Total Alkalinity (as CaCO_3) mg/L = Number of drops x factor (see table)

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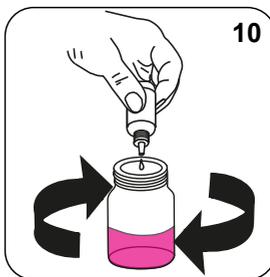
Determination of Alkalinity-OH



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



Add 3 drops of **Acidity / Alkalinity P Indicator PA1** to give a pink colour.

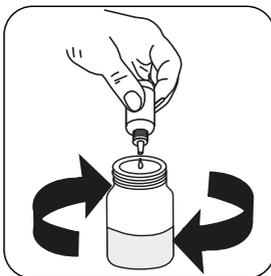


Add 10 drops **Alkalinity OH Reagent**. Note: If sample remains colourless, report the P Alkalinity as zero.



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

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



Add **Alkalinity LR Titrant TA3 or Alkalinity HR Titrant PA2/TA2** drop by drop to the sample until discolouration turns from pink to colourless.

Calculate test result: OH Alkalinity (as CaCO_3) mg/L = Number of drops x factor (see table)

Chloride**56I700190****20 - 12000 mg/L Cl⁻**

EN

Material

Reagents	Packaging Unit	Part Number
Chloride LR Titrant CC2	65 mL	56L014265
Chloride HR Titrant BC2	65 mL	56L014165
Chloride Indicator BC1/CC1	65 mL	56L714065

The following accessories are required.

Accessories	Packaging Unit	Part Number
Syringe, plastic, 20 mL	1 pc.	56A006501
Titration jar with cap, plastic, 60 mL	1 pc.	56A006701
Syringe, plastic, 5 mL	1 pc.	56A008501

Notes

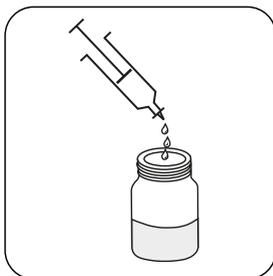
1. Alkaline samples such as boiler water will require neutralisation prior to testing.
2. Colours may vary depending on sample and test conditions.
3. Dilute samples of less than 10 mL to approximately 10-20 mL with distilled or deionised (chloride free) water.

Sampling

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

Expected Range	Titrant used	Sample Size	Factor
20-75 mg/L	Chloride LR Titrant CC2	40 mL	2.5
50-150 mg/L	Chloride LR Titrant CC2	20 mL	5
100-400 mg/L	Chloride LR Titrant CC2	10 mL	10
100-400 mg/L	Chloride HR Titrant BC2	40 mL	10
200-600 mg/L	Chloride HR Titrant BC2	20 mL	20
400-1000 mg/L	Chloride HR Titrant BC2	10 mL	40
800-3000 mg/L	Chloride HR Titrant BC2	5 mL ³	80
2000-6000 mg/L	Chloride HR Titrant BC2	2 mL ³	200
4000-12000 mg/L	Chloride HR Titrant BC2	1 mL ³	400

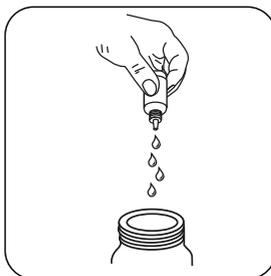
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Attention! Select the appropriate sample volume according to the instructions in the chapter Sampling.

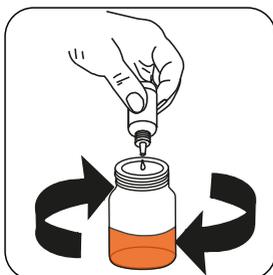


Add **10** drops of **Chloride Indicator BC1/CC 1 (Potassium Chromate)** to give a **yellow** colour.



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

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



Add **Chloride LR Titrant CC2 or Chloride HR Titrant BC2** drop by drop to the sample until colouration turns from **yellow** to **orange/brown**.

Calculate test result: Chloride (as Cl) mg/L = Number of drops x factor (see table)

Hardness Calcium

56I700270

5 - 600 mg/L CaCO₃

Material

EN

Reagents	Packaging Unit	Part Number
Hardness Calcium Buffer CH2	65 mL	56L014465
Hardness Calcium Indicator CH1P	Powder / 20 g	56P021620
Hardness LR Titrant TH3	65 mL	56L016265
Hardness HR Titrant TH4	65 mL	56L014565
Hardness Total Indicator TH1P	Powder / 40 g	56P028340
Hardness Total Buffer TH2	65 mL	56L016065

The following accessories are required.

Accessories	Packaging Unit	Part Number
Syringe, plastic, 20 mL	1 pc.	56A006501
Titration jar with cap, plastic, 60 mL	1 pc.	56A006701

Sampling

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

Expected Range	Titrant used	Sample Size	Factor
5-15 mg/L	Hardness LR Titration TH3	40 mL	0.5
10-30 mg/L	Hardness LR Titration TH3	20 mL	1
20-60 mg/L	Hardness LR Titration TH3	10 mL	2
50-150 mg/L	Hardness HR Titration TH4	40 mL	5
100-300 mg/L	Hardness HR Titration TH4	20 mL	10
200-600 mg/L	Hardness HR Titration TH4	10 mL	20

Determination of Hardness Calcium



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

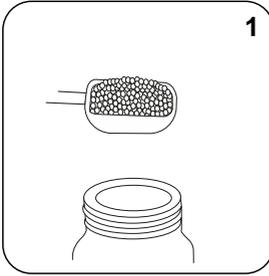


Add **4** drops of **Hardness Calcium Buffer CH2** per **10 mL** of sample.



Swirl to mix.

EN



Add **1** measuring scoop(s) **Hardness Calcium Indicator CH1P**.



Swirl to mix.



The sample will turn **wine red**.



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

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



Add **Hardness LR Titrant TH3** or **Hardness HR Titrant TH4** drop by drop to the sample until colouration turns from **wine red** to **blue**.

Calculate test result: Total Hardness (as CaCO₃) mg/L = Number of drops x factor (see table)

Hardness, total**56I700280****5 - 600 mg/L CaCO₃**

EN

Material

Reagents	Packaging Unit	Part Number
Hardness Total Buffer TH2	65 mL	56L016065
Hardness Total Indicator TH1P	Powder / 40 g	56P028340
Hardness LR Titrant TH3	65 mL	56L016265
Hardness HR Titrant TH4	65 mL	56L014565

The following accessories are required.

Accessories	Packaging Unit	Part Number
Syringe, plastic, 20 mL	1 pc.	56A006501
Titration jar with cap, plastic, 60 mL	1 pc.	56A006701

Notes

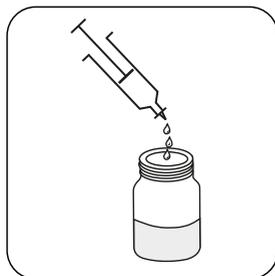
1. Colours may vary depending on sample and test conditions.
2. More than 1 ppm copper in the sample will prevent the pure blue endpoint from occurring.
3. To remove copper interference, add 1 drop of Iron Reagent FE6 before the addition of Hardness Total Buffer TH2. Iron Reagent FE6 is not supplied as standard in the hardness test pack, but can be purchased separately. (56L006365)

Sampling

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

Expected Range	Titrant used	Sample Size	Factor
5-15 mg/L CaCO ₃	Hardness LR Titrant TH3	40 mL	0.5
10-30 mg/L CaCO ₃	Hardness LR Titrant TH3	20 mL	1
20-60 mg/L CaCO ₃	Hardness LR Titrant TH3	10 mL	2
50-150 mg/L CaCO ₃	Hardness HR Titrant TH4	40 mL	5
100-300 mg/L CaCO ₃	Hardness HR Titrant TH4	20 mL	10
200-600 mg/L CaCO ₃	Hardness HR Titrant TH4	10 mL	20

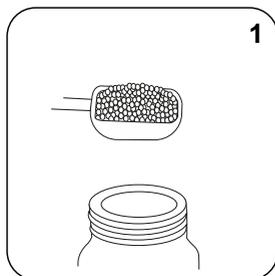
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Attention! Select the appropriate sample volume according to the instructions in the chapter Sampling.

Add **4** drops of **Hardness Total Buffer TH2** per **10 mL** of sample.

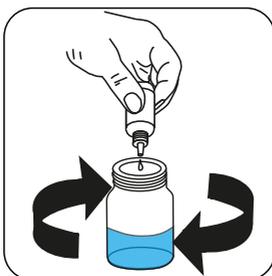
Swirl to mix.



Add **1** measuring scoop(s) **Hardness Total Indicator TH1P**.

Swirl to mix.

The sample will turn **wine red**.



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

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

Add **Hardness LR Titrant TH3** or **Hardness HR Titrant TH4** drop by drop to the sample until colouration turns from **wine red** to **blue**.

Calculate test result: Total Hardness (as CaCO₃) mg/L = Number of drops x factor (see table)

Hydrogen Peroxide**56I700290****15 - 500 mg/L H₂O₂**

EN

Material

Reagents	Packaging Unit	Part Number
Hydrogen Peroxide Buffer HP1	65 mL	56L041565
Hydrogen Peroxide HR Titrant HP2	65 mL	56L719965
Hydrogen Peroxide LR Titrant HP3	65 mL	56L649665

The following accessories are required.

Accessories	Packaging Unit	Part Number
Syringe, plastic, 20 mL	1 pc.	56A006501
Titration jar with cap, plastic, 60 mL	1 pc.	56A006701

Notes

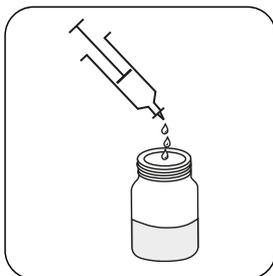
1. Colours may vary depending on sample and test conditions.
2. Other oxidising agents such as raw water residual chlorine will be included in the result but is not significant compared with the usual high concentration of peroxide employed in sanitising operations.

Sampling

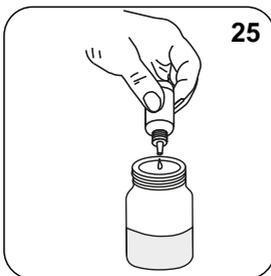
Select the sample volume from the table according to the expected measuring range and read off the factor to calculate the result.

Expected Range	Titrant used	Sample Size	Factor
1-12.5 mg/L	Hydrogen Peroxide LR Titrant HP3	40 mL	0.5
2-25 mg/L	Hydrogen Peroxide LR Titrant HP3	20 mL	1
4-50 mg/L	Hydrogen Peroxide LR Titrant HP3	10 mL	2
15-125 mg/L	Hydrogen Peroxide HR Titrant HP2	40 mL	5
25-250 mg/L	Hydrogen Peroxide HR Titrant HP2	20 mL	10
50-500 mg/L	Hydrogen Peroxide HR Titrant HP2	10 mL	20

EN



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



Add **25 drops Hydrogen Peroxide Buffer HP1**.



Swirl to mix.



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

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



Add **Hydrogen Peroxide HR Titrant HP2 or Hydrogen Peroxide LR Titrant HP3** drop by drop to the sample until colouration turns from **colourless** to **pink**.



The color should persist for at least **30** seconds.

Calculate test result: Hydrogen Peroxide (as H₂O₂) mg/L = Number of drops x factor (see table)

Nitrite**56I700300****10 - 2000 mg/L NaNO₂****Material**

EN

Reagents	Packaging Unit	Part Number
Nitrite Indicator N1	65 mL	56L017165
Nitrite Titrant N2	65 mL	56L017265

The following accessories are required.

Accessories	Packaging Unit	Part Number
Syringe, plastic, 20 mL	1 pc.	56A006501
Test Tube 5/10 mL + Cap	1 pc.	56A600401
Titration jar with cap, plastic, 60 mL	1 pc.	56A006701
Plastic syringe, 1 ml	1 pc.	56A013501

Notes

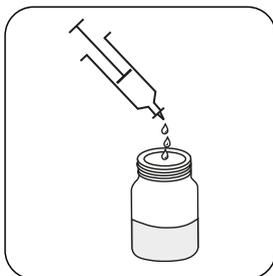
1. Colours may vary depending on sample and test conditions.
2. This test can be used to determine the nitrite reserve in cooling systems. Note that other reducing agents such as sulphite and ascorbic acid will increase the observed result.
3. Results from this test are expressed as sodium nitrite (NaNO₂). To convert from mg/L as sodium nitrite to mg/L as nitrite (NO₂), multiply the result obtained by 0.67.

Sampling

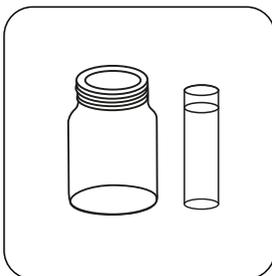
Select the sample volume from the table according to the expected measuring range and read off the factor to calculate the result.

Expected Range	Titrant used	Sample Size	Factor
10-40 mg/L	5 drops of Nitrite Indicator N1	40 mL	1.25
25-100 mg/L	4 drops of Nitrite Indicator N1	20 mL	2.5
50-150 mg/L	3 drops of Nitrite Indicator N1	10 mL	5
100-400 mg/L	2 drops of Nitrite Indicator N1	5 mL	10
300-1000 mg/L	1 drop of Nitrite Indicator N1	2 mL	25
500-2000+ mg/L	1 drop of Nitrite Indicator N1	1 mL	50

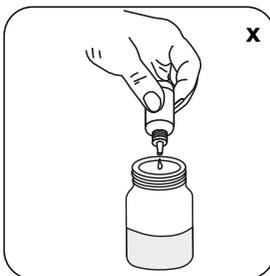
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Attention! Select the appropriate sample volume according to the instructions in the chapter Sampling.



Use a titration jar for larger samples or test tube for smaller samples (5 mL or less).



Add **X** drops of **Nitrite Indicator N1** reagent to the sample, according to the selected sample volume (see table in the notes).



Swirl to mix.

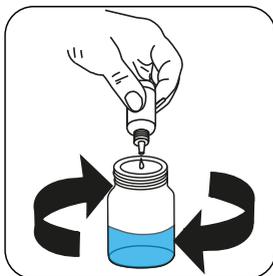


The sample will turn **orange** (if nitrite is present).



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

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



Add **Nitrite Titrant N2** drop by drop to the sample until colouration turns from **orange to blue**.



The color should persist for at least **10** seconds.

Calculate test result: Nitrite (as NaNO₂) mg/L = Number of drops x factor (see table)

Phosphonate

56I700320

0 - 20 mg/L HEDP

Material

EN

Reagents	Packaging Unit	Part Number
Phosphonate Neutraliser P1/2	65 mL	56L070465
Phosphonate Indicator P4L	65 mL	56L017565
Phosphonate pH Adjuster P3	65 mL	56L718365
Phosphonate Titrant P5	65 mL	56L017665

The following accessories are required.

Accessories	Packaging Unit	Part Number
Syringe, plastic, 20 mL	1 pc.	56A006501
Titration jar with cap, plastic, 60 mL	1 pc.	56A006701

Notes

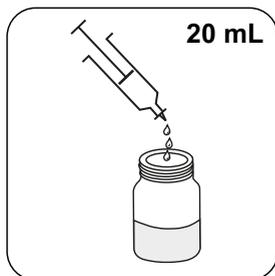
1. Carry out the test on the Treated Water (Result A) and then on Untreated Water (Result B).
2. Colours may vary depending on sample and test conditions.
3. This test is suitable for measuring AMP and HEDP type products.
4. Good results have also been obtained with PBSAM.
5. For accurate results the test should be calibrated to each product at typical system dose levels.
6. Standards should be prepared in water as similar as possible to system water (e.g. hard or soft).
7. Add factors into table.
8. Samples less than 20 mL should be diluted to approximately 20 mL with deionized water.

Sampling

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

Expected Range	Titrant used	Sample Size	Factor
	Phosphonate Titrant P5		
	Phosphonate Titrant P5		
	Phosphonate Titrant P5		

EN



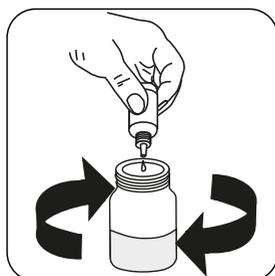
Fill the jar with **20 mL** of the sample.



Add **sufficient** drops of **Phosphonate Neutraliser P1/2** to give a **yellow** colour.



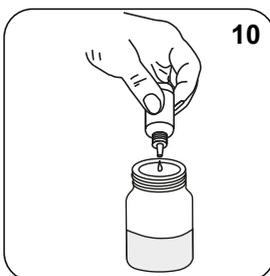
Swirl to mix.



Add drops of **Phosphonate pH Adjuster P3** until the sample is colourless .



Swirl to mix.



Add **10 drops Phosphonate Indicator P4L**.



Swirl to mix.



The sample will turn **light green** .



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

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



Add **Phosphonate Titrant P5** drop by drop to the sample until colouration turns through **grey** to **purple**.



Perform this test with treated (Result A) and untreated water (Result B).

Calculate test result: Product mg/L = Number of drops (result A - result B) x factor (see table)

Sulphite**56I700360****25 - 150 mg/L Na₂SO₃**

EN

Material

Reagents	Packaging Unit	Part Number
Sulphite Indicator S1	Powder / 40 g	56P018640
Sulphite Titrant S2	65 mL	56L018765

The following accessories are required.

Accessories	Packaging Unit	Part Number
Syringe, plastic, 20 mL	1 pc.	56A006501
Titration jar with cap, plastic, 60 mL	1 pc.	56A006701

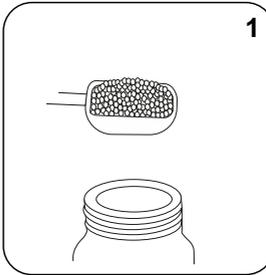
Notes

1. Colours may vary depending on sample and test conditions.
2. Catalysed sulphite reacts quickly with atmospheric oxygen when hot, so the sample should be cooled during collection with the minimum of contact with air. It should be tested immediately after it has cooled. Care should be taken when obtaining samples.
3. Ignore any undissolved material after powder/tablet addition.
4. For concentrations of sodium sulphite above 150 mg/L take a 10 mL sample and use a factor of 10 (i.e. each drop of **Sulphite Titrant S2** used = 10mg/L Na₂SO₃).
5. Sulphite reserve may be expressed in different ways. To convert readings from sodium sulphite multiply the result obtained by the following factors.
Sodium sulphite to sodium metabisulphite x 0.8
Sodium sulphite to sulphite x 0.63

Determination of Sodium sulphite in boiler water



Fill the jar with **20 mL** of the cooled sample.



Add **1 measuring scoop(s) Sulphite Indicator S1**.



Swirl to mix.



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

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



Add **Sulphite Titrant S2** drop by drop to the sample until colouration turns from **colourless to blue**.

Calculate test result: Sulphite (as Na_2SO_3) mg/L = Number of drops x 5

Tannin**56I700370****50 - 300 mg/L Tannin**

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Material

Reagents	Packaging Unit	Part Number
Tannin Indicator TN1	Powder / 50 g	56P014650
Tannin Titrant TN2	65 mL	56L019965

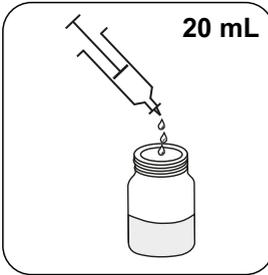
The following accessories are required.

Accessories	Packaging Unit	Part Number
Syringe, plastic, 20 mL	1 pc.	56A006501
Titration jar with cap, plastic, 60 mL	1 pc.	56A006701

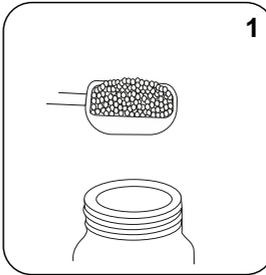
Notes

1. Colours may vary depending on sample and test conditions.
2. Tannin is the name for lignin type compounds and therefore the factor in this method is of a general nature in line with the type of products in general use.
3. It is not necessary for all of the Tannin Indicator TN1 to dissolve.

Determination of Tannin in boiler water



Fill the jar with **20 mL** of the cooled sample.



Add **1 measuring scoop(s) Tannin Indicator TN1**.



Swirl to mix.



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

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



Add **Tannin Titrant TN2** drop by drop to the sample until colouration turns from **colourless to pink**.



The color should persist for at least **10** seconds.

Calculate test result: Tannin (as Tannin) mg/L = Number of drops x 10

Glycol

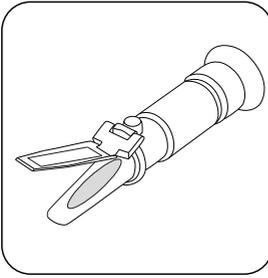
Glycol/
Refractometer

% PEG/MEG

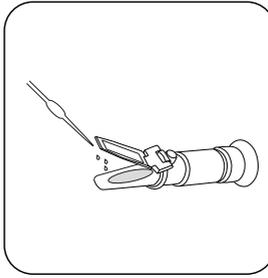
EN

Notes

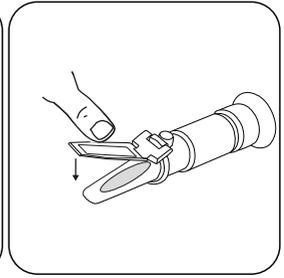
1. The description of the calibration is described in the detailed operating instructions. A detailed instruction manual is enclosed with the device.
2. Point the front end of the refractometer towards a bright light source when you want to take a reading.
3. After the measurement, wipe the measuring solution on the surface of the prism and the cover plate with a damp cotton cloth. Never immerse the device in water or hold it under running water as water may enter the device.
4. After drying, the refractometer should be stored safely. The refractometer is an optical measuring instrument and therefore very sensitive. Please handle it with care. Do not touch or scratch the optical surfaces. The refractometer should be stored in a dry, clean environment to prevent moisture and dust. Please avoid strong shaking.



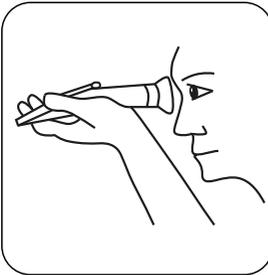
Lift the prism cover.



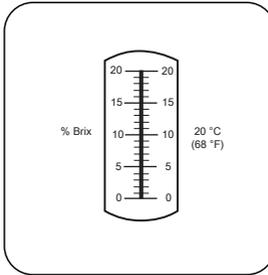
Place a few drops of the sample on the prism face.



Close the daylight plate and press it lightly.



Look through the eyepiece at the measuring scale.



Read the result at scale of light/dark boundary.

EN

Hardness (Yes/No)

Y/N

8 - 20 mg/L CaCO₃

EN

Material

Reagents	Packaging Unit	Part Number
Hardness Yes/No	Tablet / 100	515360BT

Sampling

1. Let the sample water flow for 30 seconds before taking the sample.

Notes

1. Colours may vary depending on sample and test conditions.
2. This test may be used to determine the performance of a softener unit by measuring the total hardness of softened water taken from the outlet. It is important to monitor hardness levels regularly as hardness breakthrough is indicative of exhausted resin and regeneration would be required.
3. Test result:
Green Sample Colour : Hardness is less than the threshold level
Red Sample Colour : Hardness is more than the threshold level

Sampling

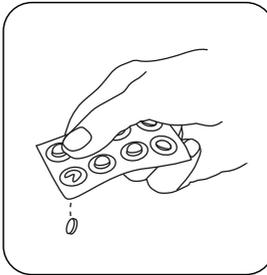
Select the sample volume from the table according to the expected measuring range and read off the factor to calculate the result.

Expected Range	Titrant used	Sample Size	Factor
10 mg/L	1 Tablette Hardness Yes/No	20 mL	
20 mg/L	1 Tablette Hardness Yes/No	10 mL	
16 mg/L	2 Tabletten Hardness Yes/No	25 mL	
8 mg/L	1 Tablette Hardness Yes/No	25 mL	

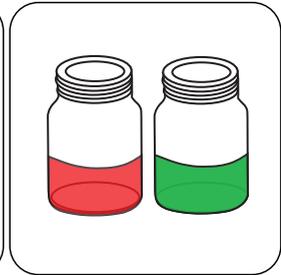
Determination of Hardness (Yes/No)



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



Add **x** Hardness Yes/No tablet(s). (See chapter Sampling under Titrant in the table.)



The sample will turn **red or green** (See chapter Notes.).

Read the test result: Note the color of the sample (red or green) (see Notes).

EN

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