

# Elcometer 138 Bresle Salt Kit

Can be used in accordance with:  
 AS 3894.6-A, IMO MSC.215 (82), IMO MSC.244 (83), ISO 8502-6,  
 ISO 8502-9, SSPC Guide 15, US Navy NSI 009-32, US Navy PPI 63101-000



It is essential that the level of contaminants on a surface is measured prior to application of the coating to ensure the quality of the coating and that its optimum lifetime is achieved.

If the coating is applied to a contaminated surface, which is not properly prepared, it could fail prematurely resulting in costly re-coating and high maintenance costs.

The Elcometer 138 Bresle Kits include the Elcometer 138 Bresle Salt Meter. This lightweight, portable meter measures the conductivity of the test sample using a single drop, then automatically converts this to show the density of salts, negating the need for the user to do a manual calculation when working in accordance with ISO 8502-6 or ISO 8502-9.

**The Bresle Salt Kit is available in four variants:**

## Elcometer 138 Bresle Salt Kit with Elcometer 135C Bresle Test Patches - E138-1C



Kit Content:

- Elcometer 135C Bresle Test Patch
- Elcometer 138 Bresle Salt Meter & Sensor
- Standard Calibration Solution
- Moistening Solution
- Bottle of Pure Water
- Syringes & Needles
- Plastic Beaker
- CR2032 Lithium Batteries, Transit Case & User Guide

## Elcometer 138 Bresle Salt Kit with Elcometer 135C Bresle Test Patches - E138-1C-CM



Kit Content:

- Elcometer 135C Bresle Test Patch
- Elcometer 138 Conductivity Meter & Sensor
- Standard Calibration Solution
- Moistening Solution
- Bottle of Pure Water
- Syringes & Needles
- Plastic Beaker
- CR2032 Lithium Batteries, Transit Case & User Guide

**Elcometer 138 Bresle Salt Kit with Elcometer 135B Bresle Test Patches - E138-1**



**Kit Content:**

- Elcometer 135B Bresle Patch
- Elcometer 138 Bresle Salt Meter & Sensor
- Standard Calibration Solution
- Moistening Solution
- Bottle of Pure Water
- Syringes & Needles
- Plastic Beaker
- CR2032 Lithium Batteries, Transit Case & User Guide

**Elcometer 138 Bresle Salt Kit with Elcometer 135B Bresle Test Patches - E138-1-CM**



**Kit Content:**

- Elcometer 135B Bresle Patch
- Elcometer 138 Conductivity Meter & Sensor
- Standard Calibration Solution
- Moistening Solution
- Bottle of Pure Water
- Syringes & Needles
- Plastic Beaker
- CR2032 Lithium Batteries, Transit Case & User Guide

**Key features of the Elcometer 135C Bresle Test Patch include:**

- Easy to peel off after test, leaving no foam on the substrate
- 19% thicker foam walls than traditional patches - easier to insert a needle
- Sealed compartment with clear flexible membrane for sampling soluble impurities
- Covers on both sides to protect against dust and contaminants
- Supplied with a Certificate of Cleanliness & Test Area
- Available in boxes of 25 & 100



**Measuring salt contamination using the Bresle method in accordance with ISO 8502-6/ISO 8502-9**



Remove protective backing and foam centre from the patch.

Apply the patch to surface and press firmly around perimeter to achieve a complete seal - ensuring that a minimum amount of air is trapped within the test compartment.



Fill the syringe with 3.0ml of pure water. Insert the syringe into the patch through its foam perimeter, at a 30° angle, so that it passes through the foam into the test compartment.

Inject the water into the test compartment. If necessary remove the remaining air within the compartment.



During an agreed period of time, without removing the needle - withdraw and re-inject the solution back into the patch, at least four times.



At the end of the period extract as much solution as possible.

Remove the syringe from the patch and measure the conductivity of the solution using a suitable Conductivity Meter such as the Elcometer 138.

## Technical Specifications

Part Number	Description
<b>E138-1C</b>	<b>Elcometer 138 Bresle Salt Kit with Elcometer 135C Bresle Test Patches</b>
Certificate <sup>3</sup>	•
Measurement Range	ISO Mode: 0 - 2399µg/cm <sup>2</sup> IMO Mode: 0 - 2199µg/cm <sup>2</sup>
Accuracy <sup>1</sup>	±2% full scale (for each range)
Dimensions	393 x 331 x 95mm
Weight	1.4kg
<b>E138-1C-CM</b>	<b>Elcometer 138 Bresle Salt Kit with Elcometer 135C Bresle Test Patches</b>
Certificate <sup>3</sup>	•
Measurement Range	0 - 19.99mS/cm
Accuracy <sup>2</sup>	±2% full scale (for each range)
Dimensions	393 x 331 x 95mm
Weight	1.4kg
<b>E138-1</b>	<b>Elcometer 138 Bresle Salt Kit with Elcometer 135B Bresle Patches</b>
Measuring Range	ISO Mode: 0 - 2399µg/cm <sup>2</sup> IMO Mode : 0 - 2199µg/cm <sup>2</sup>
Accuracy <sup>1</sup>	±2% full scale (for each range)
Dimensions	393 x 331 x 95mm
Weight	1.4kg
<b>E138-1-CM</b>	<b>Elcometer 138 Bresle Salt Kit with Elcometer 135B Bresle Patches</b>
Measuring Range	0 - 19.99mS/cm
Accuracy <sup>2</sup>	±2% full scale (for each range)
Dimensions	393 x 331 x 95mm
Weight	1.4kg

## Packing List

### Elcometer 138 Bresle Salt Kit with Elcometer 135C Bresle Test Patches - E138-1C

Box of 25 Elcometer C Bresle Test Patches  
 Elcometer 138 Bresle Salt Meter & Sensor  
 250ml bottle of standard 84µS/cm calibration solution with certificate  
 14ml Bottle of Conditioning Solution  
 250ml Bottle of Pure Water  
 3 x 5ml syringes  
 3 x Blunt Needles  
 30ml Plastic Beaker  
 2 x CR2032 batteries (supplied fitted to the Elcometer 138)  
 Transit Case  
 User Guide

### Elcometer 138 Bresle Salt Kit with Elcometer 135C Bresle Test Patches - E138-1C-CM

Box of 25 Elcometer C Bresle Test Patches  
 Elcometer 138 Conductivity Meter & Sensor  
 250ml Bottle of Standard 84µS/cm Calibration solution with Certificate  
 14ml Bottle of Conditioning Solution  
 250ml Bottle of Pure Water  
 3 x 5ml Syringes  
 3 x Blunt Needles  
 30ml Plastic Beaker  
 2 x CR2032 batteries (supplied fitted to the Elcometer 138)  
 Transit Case  
 User Guide

### Elcometer 138 Bresle Salt Kit with Elcometer 135B Bresle Test Patches - E138-1

Box of 25 Elcometer 135B Bresle Patches

Elcometer 138 Bresle Salt Meter & Sensor

250ml bottle of standard 84µS/cm calibration solution with certificate

14ml bottle of conditioning solution

250ml bottle of pure water

3 x 5ml syringes

3 x blunt needles

30ml plastic beaker

2 x CR2032 Batteries (supplied fitted to the Elcometer 138)

Transit Case

User Guide

### Elcometer 138 Bresle Salt Kit with Elcometer 135B Bresle Test Patches - E138-1-CM

Box of 25 Elcometer 135B Bresle Patches

Elcometer 138 Conductivity Meter & Sensor

250ml bottle of standard 84µS/cm calibration solution with Certificate

14ml Bottle of Conditioning Solution

250ml Bottle of Pure Water

3 x 5ml Syringes

3 x Blunt Needles 30ml Plastic Beaker

2 x CR2032 Batteries (supplied fitted to the Elcometer 138)

Transit Case

User Guide

• Certificate of Cleanliness & Test Area available to download

1 See Elcometer 138 Bresle Salt Meter for full specification

2 See Elcometer 138 Conductivity Meter for full specification

3 Elcometer 135C Bresle Test Patches are available with your logo, contact your Elcometer representative for more information.

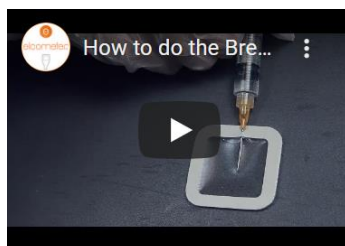
## Accessories

Part Number	Description	Certificate
E135----B	Bresle Patches (Box of 25) <sup>1</sup>	
E135----C25	Elcometer 135C Bresle Test Patch (Box of 25) <sup>1</sup>	•
E135----C100	Elcometer 135C Bresle Test Patch (Box of 100) <sup>1</sup>	•
T13830629-1	Standard 84µS/cm Calibration Solution, 250ml Bottle	
T13830629-2	Standard 1413µS/cm Calibration Solution, 250ml Bottle	
T13827259	Pure Water - 250ml Bottle	
T13818517	3 x 5ml Syringes	
T13818518	3 x Needles	
T13818519	Plastic Beaker 30ml	
E138-BSM	Elcometer 138 Bresle Salt Meter	
E138-CM	Elcometer 138 Conductivity Meter	
T13830628	Replacement Sensor for Bresle Salt Meter & Conductivity Meter	

• Certificate of Cleanliness & Test Area available to download

<sup>1</sup> Elcometer 135C Bresle Test Patches are available with your logo, contact your Elcometer representative for more information.

## Video



**YouTube Video - How to measure soluble salts on surfaces using the Elcometer Bresle Test Patch**  
 (Click on the image to the left to view the video)

Discover the benefits of the new Elcometer 135C Bresle Test Patch. With 19% thicker foam walls, high quality adhesive and easy to peel off the substrate leaving no foam residue, the new Elcometer 135C Bresle Test Patch is ideal for measuring soluble salts in the field.