NEW

Elcometer 130

Soluble Salt Profiler

Fast & accurate measurement of soluble salts on surfaces - over 4 times faster than other Bresle equivalent test methods.

- Complete a Bresle equivalent test in just over two minutes, over 4 times faster than the Bresle method
 - Multi-point conductivity sensors for accurate display of salt concentration
 - Fully portable, rugged hand-held design ideal for use in the field

- Store 3,500 readings in 1,000 batches
- Displays average & peak salt concentration
- 2D & 3D maps display salt profile & pass/fail graphs
- 1 Elcometer 130 SSP test is equivalent to 4 Bresle tests
- Bluetooth® to PC, iOS & Android™ devices



inspection equipment













elcometes



STANDARDS:

SSPC Guide 15, NSI 009-32













Elcometer 130 SSP: Made for iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5s, iPhone 4s, iPad Air 2, iPad mini 3, iPad Air, iPad mini 2, iPad (3rd and 4th generation), iPad mini, iPad 2, and iPod touch (5th generation). "Made for iPhone," and "Made for iPhone," and "Made for iPhone," and "Made for iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, iPhone, or iPad may affect wireless performance.

elcometer

Soluble Salt Profiler

"Four Bresle equivalent readings in 2½ minutes"

Each filter paper is the size of four Bresle patches - the Elcometer 130 Soluble Salt Profiler not only displays the individual reading, but also provides four Bresle equivalent readings in just over two minutes.

"The new Elcometer 130 SSP doesn't just measure the level of soluble salts"

In addition to soluble salt levels (cleanliness) or conductivity, the Elcometer 130 SSP carries out a detailed analysis of the test area - providing an accurate salt density profile map, pinpointing areas of high contamination outside user defined limits.

"Accurate in all environments"

This new, easy to use, Elcometer 130 SSP has automatic temperature compensation ensuring accuracy in all climatic conditions. Impure water can be offset for accurate and repeatable readings.

"Each gauge is designed to last"

Robust, durable & water resistant, the new Elcometer 130 SSP is available with a 2 year manufacturer's warranty; giving you peace of mind.

"Generate instant reports on your PC, Android™ or iOS mobile device"

The Elcometer 130 SSP wirelessly transmits readings, statistics and batches via Bluetooth® or via USB straight into an inspection application or into ElcoMaster®, Elcometer's Mobile App, for instant report generation at your desk or, using your mobile, in the field.

"Calibration verification - peace of mind"

A Calibration Verification Tile is available for verifying the accuracy of the gauge whilst out in the field and the verification date is recorded for use in reports.



Elcometer 130 SSP



Large Single Reading



Four Bresle Patch Equivalent Readings



Pass/Fail to User Defined Limits



2D Salt Density Map with High/Low Readings



3D Salt Density Profile & Peak Salt Concentration (Hi)

elcometes

Elcometer 130 SSP

Soluble Salt Profiler

How to use the Elcometer 130 Soluble Salt Profiler



1. Wearing clean disposable gloves (supplied), fill a syringe with precisely 1.6ml of deionised water.



2. Using tweezers, remove a filter paper from the pack and place it on the cleaned, non-labelled side of the magnetic disc supplied.



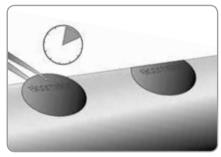
3. Disperse the water from the syringe, evenly across the whole of the filter paper and remove any bubbles from under the paper.



4. Place the magnetic disc, with wetted paper face down on to the area under test, pressing firmly into any contours or irregularities and start the 2 minute timer on the gauge.



5. After two minutes, carefully remove the filter paper and magnetic disc from the test surface and place on to the measurement electrodes.



6. As each filter paper remains on the surface for two minutes, multiple tests can be undertaken at the same time, reducing inspection times further.



7. Close the lid, ensuring that the magnetic catch is fully engaged, the gauge will begin measuring.



8. The reading will be displayed on screen in the chosen display mode.



9. Place the filter paper in a resealable bag (supplied), if required for further analysis.

Soluble Salt Profiler

Elcometer 130 SSP

Bresle Patch Equivalence

Tested under laboratory conditions in accordance with ISO 8502-9, the Elcometer 130 SSP provides equivalent measurements to the Bresle Patch Method.

To show equivalency of measurement between the Bresle Method and the Elcometer 130 SSP it is essential that all parameters are identical except the gauges under test.

For equivalency to be established, both gauges should read a similar value, taking into account the accuracy and resolution of each test.

TEST METHOD

Working with the School of Materials at the University of Manchester (UK) an automated, repeatable and reproducible doping method was developed to apply a known salt concentration uniformally over a large panel.

Over 200 individual tests were undertaken across a range of concentrations and blast profiles.

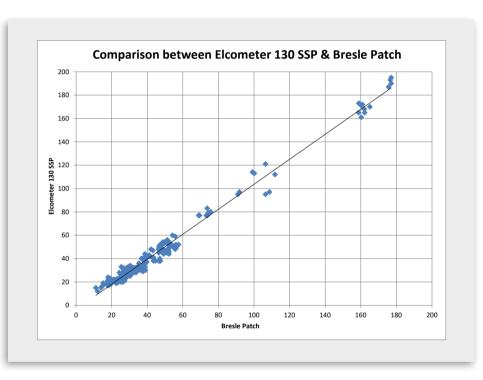
Nominal steel grit blast profiles

- Smooth <25µm (1.0mils)
- 25 to 50µm (1.0 to 2.0mils)
- 50 to 75µm (2.0 to 3.0mils)
- 75 to 150µm (3.0 to 6.0mils)

Surface salt concentration levels

- 15mg/m² to 25mg/m²
- 25mg/m² to 35mg/m²
- 35mg/m² to 45mg/m²
- 45mg/m² to 55mg/m²
- >55 mg/m²

Testing was undertaken under strict laboratory conditions, with each method tested in accordance with the manufacturer's instructions.



RESULTS

"The Elcometer 130 SSP measurement equivalency is less than 0.46µg/cm² across all concentrations on smooth and blasted substrates, almost half the background contamination of a Bresle Patch."

The Elcometer 130 SSP has undergone extensive side by side comparison testing against the Bresle Test Patch Method.

Background (inherent) contamination within the Bresle Test Patch has shown that the Bresle Test Patch has a background contamination range of $0.88\mu g/cm^2$ ($8.8mg/m^2$).

The variation in readings between the Elcometer 130 SSP and the Bresle Test method are significantly within the background contamination range of the Bresle Patches (0.88µg/cm²); being less than 0.41µg/cm² for concentrations below 8.0µg/cm², and less than 0.46µg/cm² across concentrations below 16.5µg/cm².

For a copy of the full report and analysis visit www.elcometer.com

Elcometer 130 SSP

Soluble Salt Profiler

Create instant reports with ElcoMaster®

What you do with the collected data is just as important as taking the readings themselves.



ElcoMaster® is a fast, easy to use software solution for all your data management and quality assurance needs, preparing professional inspection reports at the click of a button.

Data transferred to ElcoMaster® includes:

- Date and time stamped readings
- Statistical values
- Limit values
- Readings above high limit
- · Run charts & histograms
- Salt profile maps
- · Batch and gauge information
- Calibration information

Whether you are in the field or on the factory floor, using the ElcoMaster® Mobile App users can;

- Store live readings directly on to a mobile device and save them into batches
- View graphs in real-time whilst carrying out the inspection
- Add notes to individual batch reading
- Add photographs of the test surface to each individual batch reading at the click of a button
- Plot individual readings on to a location map, photograph or diagram via the mobile device's internal GPS
- Inspection data can be transferred from mobile to PC for further analysis and reporting
- Generate instant .pdf¹ report for submission





Connect

Connect gauge via Bluetooth® to see live readings directly on the phone and save them into batches.

Review

Review average, maximum and minimum readings instantly.

Manage & Print

Store all data; surface cleanliness, surface profile, climate and manual reports in easy to manage folders.

Photos & Notes

Add photos, notes and comments.

Image Collection

Use measurement location points on images to indicate the position for the next reading.

Combine

Combine different inspection parameters (such as salt contamination, surface profile, climate, dry film thickness) together with images, notes and other project specific information into reports.

Collaborate

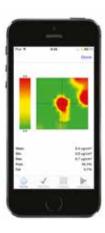
Share inspection data securely via the Cloud and collaborate on projects using the instant messaging feature in ElcoMaster®.

Send

Email inspection data from a mobile device to a PC for further analysis and reporting or transfer data via the Cloud.







¹Available on iOS devices

elcometes

Soluble Salt Profiler

Elcometer 130 SSP

Technical Specification

		Model SSP
Repeatable & reproducible measurements		
Easy to use menu structure; in 30+ languages		
Tough, impact, waterproof & dust resistant; equivalent to IP64		
Bright colour screen; with permanent back light		
Scratch & solvent resistant display; 2.4" (6cm) TFT		
2 year gauge warranty*		
USB power supply; via PC		
Calibration certificate		
Calibration verification mode (with optional certified calibration tile)		
Ambient light sensor; with adjustable auto brightness		
Emergency light mode		•
Magnetic & tripod mounting points		
Data output, USB to PC & Bluetooth to PC, Android™ & iOS [‡] devices		
On screen statistics		
Number of readings (n) ; Mean/Average, (\bar{x}) ; Standard deviation (σ) ; Highest reading/Peak salt concentration $(Hi;)$ Lowest reading (Lo) ; Coefficient of variation $(CV\%)$; Number of readings above high limit $(\underline{\triangle}^n)$		
Gauge memory		
Number of individual reading sets; including salt density, pass/fail map & distri	bution graph	3,500
Number of batches		1,000
Measurement units & range		
Surface Cleanliness - Elcometer 130 Mode	0-50µg/cm²	0-500mg/m ²
Surface Cleanliness - Bresle Equivalent Method Mode	0-15µg/cm²	0-150mg/m ²
Conductivity	0-6000µS/cm 0-3000ppm	0-6mS/cm 0-0.3% Salinity
Resolution		
Surface Cleanliness	0.1µg/cm ²	1mg/m²
Conductivity	1µS/cm 1ppm	0.001mS/cm 0.0001% Salinity
Gauge Accuracy	тррпп	±1% of reading
Measurement mode		2170 0110000119
Surface Cleanliness		
Conductivity		
Calibration offset mode		
Automatic temperature compensation		
ElcoMaster® software & USB cable		
Individual reading and profile map stored with time and date		•
Plastic transit case		
Alpha-numeric batch names; user definable on the gauge		
Fixed batch size mode; with batch linking		
Delete last reading		
Limits; (gauge & batch specific)		
Review, copy, clear & delete batches & calibration settings		
Trend graph; last 20 readings		
Batch review graph		

The Elcometer 130 SSP is supplied with a one year warranty against manufacturing defects. Gauge warranty can be extended to two years via www.elcometer.com.

[‡] Visit www.elcometer.com/sdk to find out how to integrate Elcometer's MFi certified products to your App.

Technical Specific	cation	
Model	Description Certificate	;
E130-SP	Elcometer 130 Soluble Salt Profiler	
E130-SPC	Elcometer 130 Certified Soluble Salt Profiler •	
Operating Range	5°C - 50°C (41°F - 122°F)	
Power Supply	4 x AA batteries or via USB (rechargeable batteries can also be used)	
Battery Life	Alkaline: Approximately 30 hours Lithium: Approximately 45 hours	
Sample Time	2 minutes	
Sampling Size	110mm (4.3") circle	
Dimensions	250 x 145 x 50mm (9.8 x 5.7 x 1.9")	
Weight	780g (1.72lb)	
Standards	SSPC Guide 15 (Bresle Equivalent ISO 8502-9 Test Method)	
Packing List	Elcometer 130 Soluble Salt Profiler, 3 x magnetic disc 100 x high purity test papers, 250ml (8.5fl oz) pure wate 20 x PVC storage bags, disposable gloves, sensor wipes, 3 x 3.0r (0.1fl oz) syringes, 2 x plastic tweezers, 4 x AA batteries, shoulded strap, plastic transit case, test certificate and operating instruction USB cable, ElcoMaster® software	er, ml er
Accessories		

Accessories		
		Certificate

T13027115	Calibration Verification Tile
T13025964	Magnetic Discs (x3)
T13024091	3.0ml / 0.1fl oz Syringe (x3)
T13024093	Self Seal Polythene Bags (x20)
T99911344	Pure Water - 250ml (8.5fl oz) Bottle with 3ml syringe
T13024094	High Purity Test Papers (x100)
T13024092	Disposable Vinyl Gloves (x20)
T13024098	Plastic Tweezers (x2)
T13024087	Box of 72 Sensor Wipes
T99920130	USB Bluetooth® Adaptor V2.1+

Calibration certificate supplied as standard

elcometer

www.elcometer.com

Elcometer 130 SSP; Made for iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, iPhone 5, iPhone 4s, iPhone 4, iPad Air, 2, iPad mini 3, iPad Air, IPad mini 2, iPad (3rd and 4th generation), iPad mini, iPad 2, and iPod touch (5th generation). "Made for iPhone," and "Made for iPhone," and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPod, iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, iPhone, or iPad may affect wireless performance.

iPad, iPhone, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. App Store is a trademark of Apple Inc., registered in the U.S. and other countries. Suitable for mobile devices running Android software version 2.1 and upwards. Android™ and Google Play are trademarks of Google Inc. Elcometer and ElcoMaster® are registered trademark of Elcometer Limited. All other trademarks acknowledged.

Due to our policy of continuous improvement, Elcometer Limited reserves the right to change specifications without notice.

© Elcometer Limited, 2017. All rights reserved. No part of this document may be reproduced, transmitted, stored (in a retrieval system or otherwise), or translated into any language, in any form, or by any means, without the prior written permission of Elcometer Limited.

ENGLAND

Elcometer Limited Manchester M43 6BU Tel: +44 (0)161 371 6000 Fax: +44 (0)161 371 6010 sales@elcometer.com www.elcometer.com

BELGIUM

Elcometer SA
Tel: +32 (0)4 379 96 10
Fax: +32 (0)4 374 06 03
be_info@elcometer.com
www.elcometer.be

FRANCE

Elcometer Sarl Tel: +33 (0)2 38 86 33 44 Fax: +33 (0)2 38 91 37 66 fr_info@elcometer.com www.elcometer.fr

GERMANY

Elcometer Instruments GmbH Tel: +49(0)7361 52806 0 Fax: +49(0)7361 52806 77 de_info@elcometer.com www.elcometer.de

THE NETHERLANDS

Elcometer NL Tel: +31 (0)30 259 1818 Fax: +31 (0)30 210 6666 nl_info@elcometer.com www.elcometer.nl

IADAN

Elcometer KK
Tel: +81-(0)3-6869-0770
Fax: +81-(0)3-6433-1220
jp_info@elcometer.com
www.elcometer.ip

REPUBLIC OF SINGAPORE

Elcometer (Asia) Pte Ltd Tel: +65 6462 2822 Fax: +65 6462 2860 asia@elcometer.com www.elcometer.com.sg

UNITED ARAB EMIRATES

EL Inspection & Blasting Equipment LLC Tel: +971 4 295 0191 Fax: +971 4 295 0192 uae_sales@elcometer.com www.elcometer.ae

USA

MICHIGAN
Elcometer Inc
Tel: +1 248 650 0500
Toll Free: 800 521 0635
Fax: +1 248 650 0501
inc@elcometer.com
www.elcometer.com

TEXAS

Elcometer of Houston Tel: +1 713 450 0631 Toll Free: 800 521 0635 Fax: +1 713 450 0632 inc@elcometer.com www.elcometer.com