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### DSP Bresle Chloride Test Kit

Features unique Direct Sampling Procedure (DSP) to ensure high speed and accuracy. Up to 60 times more accurate than other test kits available. Also uses a smaller test sample for measurement.



The Bresle Chloride Test Kit includes all the necessary equipment for assessing the level of soluble salts on blast-cleaned surfaces prior to coating. Inside the Bresle Kit is a conductivity gauge used for the assessment of soluble salt ions as chlorides, sulphates and nitrates. The Bresle Kit complies with the ISO 8502-6 and ISO 8502-9 standards, describing the Bresle Method, which states that the conductivity is mainly directly proportional to the concentration of dissolved salts in the solution. ISO 17025 approved certificate of patches available on request.

#### Contamination of blast-media

The Bresle Kit is also suitable to determine the contamination of blast-media in use. This is to prevent the dissolved salts in the recycled abrasive media or water from re-contaminating the surface being cleaned. The blasting media can be tested following ISO 11127-6.

Technical Data	
Range:	0.1 - 20.000 mg/m <sup>2</sup> (with DSP method)
Resolution:	0.1 mg/m <sup>2</sup> (with DSP method)
Accuracy:	1% accuracy of gauge
Temp. Range:	0 - 50°C
ATC:	0 - 50°C
Normalization Temperature:	25°C
Auto Off:	8.5 minutes after last key pressed
IP Class:	IP67
Auto Calibration:	at 84 µS/cm
Patch Area:	12.50 cm <sup>2</sup>
Patch Type:	Latex membrane

#### Special Care

- Always clean the instrument after use.
- Depending on the frequency of use, a thin film may occur on the probe. Use a clean cotton swab and cleansing solution to remove this.
- Always keep the instrument in its case when not in use.



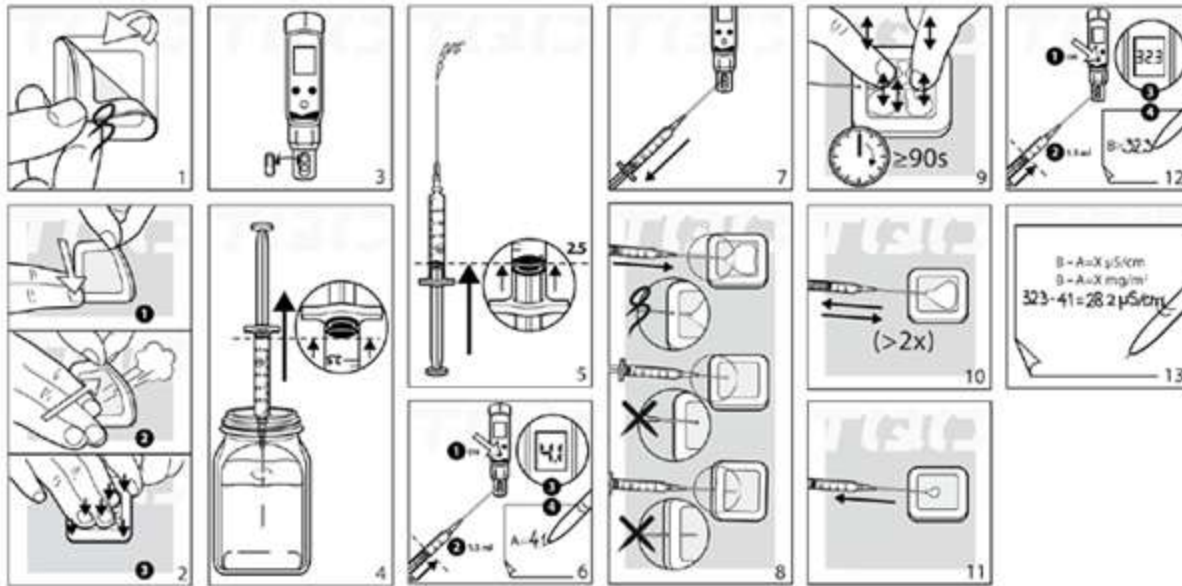
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### Determination of Soluble Contaminants on Surfaces: Direct Sample Procedure (DSP)



### Preparations

The high accuracy method is a special slightly adjusted method, based on the ISO method, but with full use of the capacities of the new conductivity meter. This increases the accuracy significantly. Just like with the ISO method, it's very important to keep all the material used for this test as clean as possible. NEVER touch the measuring cell or the needle with bare hands.

- Determine the electrical conductivity of the water before use of each test.
- Use the syringe to draw 2.5 ml distilled water out of the large 200 ml bottle and spray 1.5 ml in the measuring cell of the Testr11+.
- Turn on the Conductivity meter (check if it's calibrated), and wait a moment in order to allow the instrument to carry out the automatic temperature compensation. Once the reading stabilizes, push the hold button and read the measurement.
- This is the Zero-Reference value of the conductivity of the water - Note this value immediately in your notes
- Draw the distilled water back into the syringe.

This method is the safest way to perform the Bresle test. All parts that may affect the measurements are included in determining the Zero-reference.

### Operation

- A. Select the section on the steel surface to be used as the test area for assessment of the total surface density of salts. It should preferably be dry and with no loosely adherent rust, dirt or moisture (dampness), so that the patch frame can properly adhere to the surface. The Bresle Sampler can be placed in almost every position, vertical, horizontal, slanting or on surfaces that are not completely flat.  
It is recommended to test more than one spot to catch the variations of the contamination level!
- B. Remove the square protective backing of the Bresle Sampler with its inner protective paper and dispose. Place the Bresle Sampler with the adhesive side to the test surface and press firmly in order to create a tight seal.
- C. Use the syringe to draw 2.5 ml out of the large 200 ml bottle and inject into the Bresle Sampler. Make sure the needle is inserted through the foam frame of the Sampler from the topside and that all the water is injected into the patch.  
(Inserting through the transparent part of the Sampler or from the bottom side will cause leakage!)
- D. Dissolve the salts on the test surface by carefully using the syringe and the patch compartment back and forth between them. This operation should go on for about 3 to 5 minutes with 2-4 pumping strokes per minute. Rubbing the cell area of the Sampler between pumping is increasing the dissolution speed of the water.
- E. When finished, suck up the entire volume of water into the syringe, remove the syringe from the Bresle Sample. Spray some water onto the measuring cell of the conductivity meter. The rest of the water should remain in the syringe.

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## Corrosion Control Equipment and Supplies

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- F. Measure the conductivity of the solution in the measuring cell and note down the value on the notepad. This is the 'Measured Value'.
- G. Calculate the difference between the measured value (measured at "F") and the Zero-Reference which has been determined earlier ( $\mu\text{S}$  Measured Value -  $\mu\text{S/cm}$  Zero Reference). The total surface density of soluble salts/contaminants (S) in  $\text{mg/m}^2$  is  $S = 1 \times (\text{Sample Value} - \text{Zero-Reference})$
- H. Dispose of all the contaminated water and clean all critical parts by rinsing with clean distilled water.
- I. Make sure the Bresle Sampler is removed from the surface after the test has been performed.