

PosiTector[®] *SST* *Abrasives Test Kit*

Addendum to Instruction Manual v.1



The Abrasives Test Kit for the **PosiTector *SST*** was designed to determine the concentration of soluble salts in blast cleaning abrasives, in accordance with ASTM D4940 and ISO 11127-6.

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The Measure of Quality

Steps to Perform a Test in accordance with ASTM D4940

Test Preparation

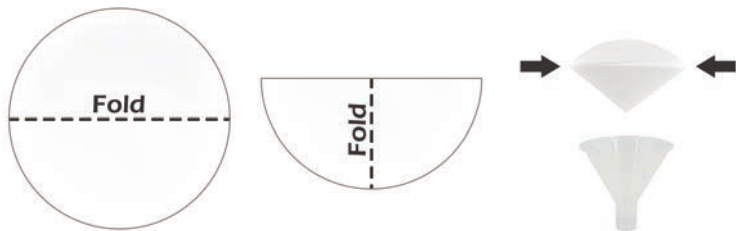
- a) Verify the **PosiTector SST** test cell using the Certified Conductivity Standard (refer to the Quick Guide).
- b) Thoroughly rinse beakers, funnels, and stirring rod with deionized (DI) water until the rinse water has a conductivity of $5.0 \mu\text{s}/\text{cm}$ ($5.0 \mu\text{mho}/\text{cm}$) or less.

1 - Prepare the Abrasive Solution

- a) Add 300 ml of deionized water to the 600 ml glass beaker.
- b) Using the plastic beaker, measure 300 ml of abrasive. Add to the 600 ml glass beaker.
- c) Stir the abrasive-water solution for 1 minute, let stand 8 minutes, then stir for another minute.

2 - Filter the Abrasive Solution

- a) Prepare the filter paper by folding in half, and then in half again. Place your finger between the third and fourth layers to open into a funnel shape.



- b) Insert the filter into the plastic funnel and filter 10 ml of liquid into a separate container and discard.
- c) Using the wetted filter and funnel, continue filtering liquid into the small glass beaker to the 80 ml line.

3 - Prepare the Test Cell

Rinse the **PosiTector SST** test cell with deionized (DI) water until the rinse water has a conductivity reading of 5.0 $\mu\text{s/cm}$ (5.0 $\mu\text{mho/cm}$) or less.

NOTE: Ensure the **PosiTector SST** has been taken out of **Bresle Mode** prior to testing.

4 - Test the Filtered Solution

- a) Rinse the **PosiTector SST** probe cell by submerging it into the filtered liquid 2 to 3 times.
- b) Lower the **PosiTector SST** probe cell into the filtered liquid and record the results in accordance with ASTM D4940. A calculation is not required as the test cell constant (K_{25}) is equal to 1.

NOTE: An update may be needed for the **PosiTector SST** to display measurements above 500 $\mu\text{s/cm}$. For more information, please visit: <http://defelsko.com/updates/>

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