

Cell Calibration

The cell constant of a conductivity cell may vary slightly with the conductivity of the solution being measured. Calibration may also be affected by electrode fouling, replatinization, or by mechanical shock. A cell and instrument can be calibrated together as a system with YSI Conductivity Calibrator Solutions at 1,000, 10,000, 50,000 and 100,000 microsiemens/cm at 25.00°C. YSI Conductivity Calibrator Solutions are available from a YSI authorized dealer in the concentration and container sizes listed below.

Directions for calibration at other than 25.00°C are included with the conductivity calibrator solutions. In calculating the cell constant in absolute terms, the uncertainty of the instrument calibration must be added to the tolerance of the conductivity calibrator solution.

YSI Conductivity Calibrator Solutions

YSI 3161	1,000	microsiemens/cm, quart
YSI 3163	10,000	microsiemens/cm, quart
YSI 3165	100,000	microsiemens/cm, quart
YSI 3167	1,000	microsiemens/cm, 8 pint bottles
YSI 3168	10,000	microsiemens/cm, 8 pint bottles
YSI 3169	50,000	microsiemens/cm, 8 pint bottles

Platinum Black

The electrodes of YSI conductivity cells are coated with platinum black before calibration. This coating is extremely important to cell operation, especially in solutions of high conductivity. Cells should be inspected periodically, and after each cleaning. If the coating appears to be wearing or flaking off the electrodes, the cell should be cleaned and the electrodes replatinized.

Replatinizing

YSI 3140 platinizing solution is available from your dealer.

Replatinize as follows:

- 1. Dip Cells:** Either immerse cell in platinizing solution bottle, or decant into a suitable vial or beaker enough solution so that the cell electrodes are completely submerged.
- Flow-through and Fill Cells:** Plug one end of the cell and fill it with platinizing solution until the electrodes are completely covered. Use of tubing and a small funnel will simplify this operation.
2. Connect the cell to the conductivity instrument and follow the directions in the instrument's Operations Manual.
3. Disconnect the cell and save the platinizing solution; it may be reused many times. The solution is expensive and should not be wasted.
4. Rinse the electrodes with a flow of tap water for about 15 minutes.
5. Rinse the cell with distilled or deionized water and store or use.

Warranty and Repair

YSI conductivity cells are warranted for one year from date of purchase by the end user against defects in materials and workmanship. Within the warranty period, YSI will repair or replace, at its sole discretion, free of charge, any product that YSI determines to be covered by this warranty.

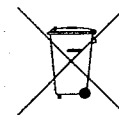
To exercise this warranty, write or call your local YSI representative, or contact YSI Customer Service in Yellow Springs, Ohio. Send the product and proof of purchase, transportation prepaid, to the Authorized Service Center selected by YSI. Repair or replacement will be made and the product returned, transportation prepaid. Repaired or replaced products are warranted for the balance of the original warranty period, or at least 90 days from date of repair or replacement.

Limitation of Warranty

This warranty does not apply to any YSI product damage or failure caused by (i) failure to install, operate or use the product in accordance with YSI's written instructions, (ii) abuse or misuse of the product, (iii) failure to maintain the product in accordance with YSI's written instructions or standard industry procedure, (iv) any improper repairs to the product, (v) use by you of defective or improper components or parts in servicing or repairing the product, or (vi) modification of the product in any way not expressly authorized by YSI.

This warranty is in lieu of all other warranties, expressed or implied, including any warranty of merchantability or fitness for a particular purpose. YSI's liability under this warranty is limited to repair or replacement of the product, and this shall be your sole and exclusive remedy for any defective product covered by this warranty. In no event shall YSI be liable for any special, indirect, incidental or consequential damages resulting from any defective product covered by this warranty.

Contact us at—
800 897-4151 or 937 767-7241
Fax 937 767-9353
info@ysi.com
www.ysi.com



Y S I incorporated

Yellow Springs, Ohio 45387 USA

Item 032057 A32057C

