

Important Notice – SKW500 Kit Contents

Please note that there are some changes to the contents of the Palintest SKW500 Complete Soil Kit from those shown in the current instruction manual.

- 1- The work surface shown in some illustrations is no longer included.
- 2- The Chloride S reagent tablets are not included. A separate chloride kit (part number PT977) is available as an optional accessory. Alternatively, the multiparameter pocket sensor already in the SKW500 can be used.

Available Chloride Testing Options

Using the Multiparameter Pocket Sensor

In the SKW500 manual there is a section on the Multiparameter Pocket Sensor which covers all of its modes and functions. The section titled Soil Test Methods then details a full procedure for measuring soil conductivity and salinity using the Pocket Sensor which should still be followed.

Then, multiply the salinity result obtained by 0.61 to achieve a value for chloride concentration in g/L (ppt) Cl based on $EC_{1:5}$.

Please Note: Soil Electrical Conductivity $EC_{1:5}$ includes a 1:5 dilution and by convention is a directly reported measurement. The salinity value and chloride value above will therefore not have been adjusted for the initial dilution. To do this multiply the chloride concentration above by 5 to get an approximation of the actual concentration in the soil in g/L (ppt).

Using the optional extra PT977 Chloride Drop Count Kit

The instructions in the chloride drop count kit need to be adjusted slightly for soil testing, as follows.

1. Measure 50mL of deionised water into one of the sample containers included in the SKW500.
2. Add one 10mL scoop of soil to this, replace lid and shake for 2 minutes.
3. Using a filter paper and funnel, filter 10 mL of this extract into the sample tube included in the PT977 Chloride Test Kit.

4. Add 2 drops of Phenolphthalein Indicator (PH1605)
 - If this remains colourless, go straight to step 5.
 - If this turns red, add Alkalinity Titrant Low (SA1555), one drop at a time, while swirling, until it is colourless.
5. Add 6 drops of Potassium Chromate Indicator (PC8025); then swirl and the solution will turn yellow.
6. Add Chloride Titrant (SN3410) one drop at a time, while swirling. Count the number of drops until the solution changes from yellow to red. The first colour change is the endpoint.
7. Soil chloride in mg/L Cl = Number of drops x 125.

If you have got any questions, or wish to purchase the PT977 chloride drop count kit, please contact your local Palintest representative or email sales@palintest.com