



## **Single Junction Gel Filled Ag/AgCl Reference Electrode - A3135**

A glass bodied reference electrode half-cell with a 12mm body.

Silver/Silver Chloride reference electrodes require separate pH (E8082) or Platinum Redox half-cell for use.

The Reference electrode is an Ag/AgCl system with a Teflon Disc junction. The electrode is particularly robust and maintenance free. As a result the this electrode will leach out KCl into the sample solution but is able to withstand significant sample pressure due to its solid gel filling and internal expansion inserts. For applications where Chloride leakage is not acceptable you should use a double Junction reference electrode.

Separate reference electrodes are superior to the reference half cells found in combination electrodes as they have a larger reservoir of filling gel /solution and therefore a faster flow rate of electrolyte through the junction which provides faster response and greater stability. The EDT Silver/Silver Chloride reference electrode has several advantages over a standard Calomel electrode. Firstly it does not contain Mercury and can therefore be used in a wider variety of applications. Secondly Ag/AgCl references have greater stability at higher temperatures and can withstand analysis of hot samples.

Finally the large contact surface area of the Teflon Disc Junction provides excellent stability and blockage resistance for applications that are too aggressive for standard reference electrodes

For Applications using Tris Buffers use a Calomel or Double junction reference electrode.

The EDT Silver/Silver Chloride reference electrode comes with a 4mm connector (2mm connector available on request) and is compatible with all types of pH electrode. Calibration is usually made between two buffer solutions. To view a simple calibration [click here](#).