



**Wedgewood Analytical Inc.**

## **HF Resistant Glass Information**

Asymmetry Potential	The potentials of HF resistant glass electrodes are the same as our GP glass electrodes, 7.0 +/- 12 mV at 25°C.
Slope	The slopes of the new HF resistant glass electrodes are > 57 mV/pH unit, same as GP electrodes.
Life Time	<p>Three electrodes tested. Measurement in 1N HCl, addition of 1 g/l HF at 20 (+/-1)°C. The lifetime measurement test ran for 140 hours continuous, then at 50°C for 100 hours, finally the addition of 10 g/l HF in 1N HCl at 20°C until failure.</p> <p>All electrodes worked well over 240 hours in 1 g/l HF with acceptable slopes (53 mV/pH at 20°C). At the ten times higher concentration of HF two electrodes worked for a further 100 hours, the third electrode still worked after 150 hours.</p>
Membrane Res.	The mean value of membrane resistance of the unused electrodes is 100 MΩ. This value is within the same tolerance as GP glass.