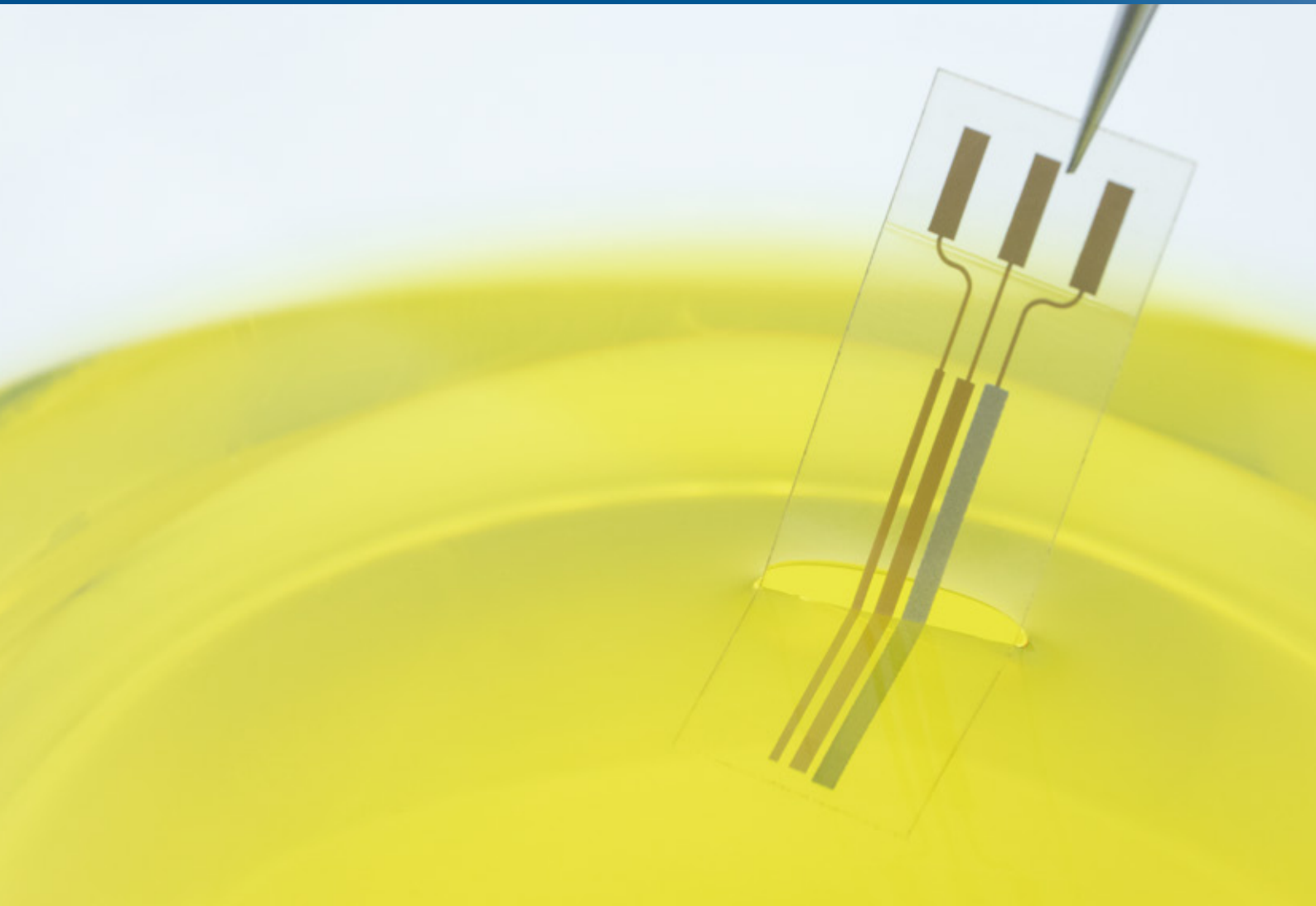




# ***P-Flex*** **PET** Applications

## Ag/AgCl electrochemical sensor

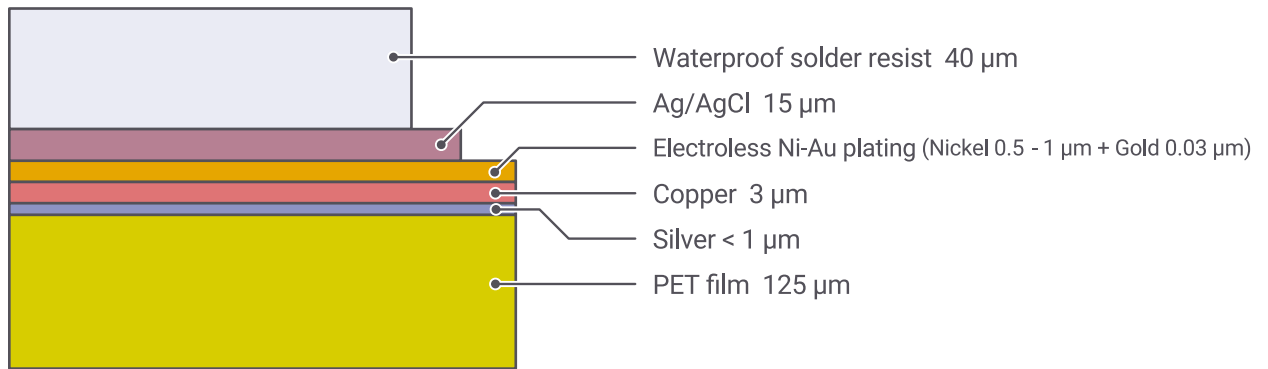


### What is an electrochemical sensor

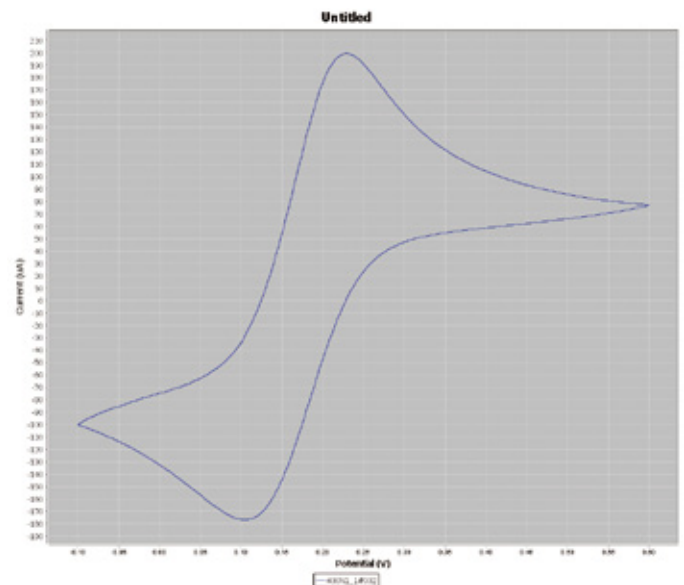
An electrochemical sensor is a sensor that can figure out the status by using redox potential. It is used for the following cases;

- ✓ for environmental and water quality analyses, measurement of the amount of copper, arsenic, and mercury and the like contained in the water.
- ✓ for measurement of the blood glucose level, lactic acid, urine sugar sensor, and glutamic acid etc as a transducer part of a biosensor etc...

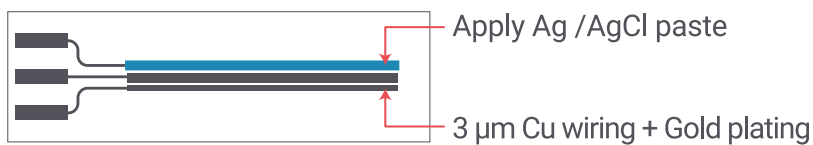
# Example of Layer constitution



## Benefits of making electrochemical sensors with P-Flex™ PET



The concentration of the potassium ferricyanide aqueous solution was measured with  $\mu\text{Stat400}$  manufactured by DropSens



Usually, the electrochemical sensor is manufactured only by silk screen printing. However, when it is combined with the 3  $\mu\text{m}$  copper wiring of P-Flex™ PET;

- ✓ Reduction of wiring resistance value.
- ✓ Cost benefit compared to gold paste printing by making gold electrode with gold flash.
- ✓ Because it is a PET base that doesn't absorb water, it can reduce water absorption induced sensor sensitivity trouble, can also be used for flow cell and such.
- ✓ Can be produced in small batches.

## Company Overview



# Elephantech

Elephantech Inc. (Formerly AgIC Inc.\*)

\*Changed corporate name on September 4, 2017

Website



Contact



Establishment	January 6, 2014
Address	4-3-8 Hatchobori, Chuo-ku, Tokyo 104-0032, Japan
Capital	JPY 310 million
Representative	Shinya Shimizu, CEO
Website	<a href="https://www.elephantech.co.jp/en/">https://www.elephantech.co.jp/en/</a>
Contact	<a href="https://www.elephantech.co.jp/en/about/#contact">https://www.elephantech.co.jp/en/about/#contact</a>