

Polygel Salt Bridge

A Polygel Bridge is an electrochemical bridge similar in function to a Luggin tube bridge.

It can form a bridge between a test cell and a Reference electrode where it is not possible to introduce the Reference electrode directly. It is flexible and of small diameter, making it useful to use with small cells, or the walls of flow cells, etc. Within reason it can be manufactured to any length although it is best used as short as practicable (less than 1m)



Polygel Salt Bridge Details

The Polygel bridge is reasonably resistant to temperature and chemicals. Polygel Bridges are available in two common tubing sizes:

- 1/16" x 1/8" (approx 3.2mm o.d.)
- TW14 (approx 2.3mm o.d.)

Instructions: When not in use store with both ends immersed in saturated Potassium Chloride solution or replace the supplied end caps containing this solution.

- Resistivity is approx 19K Ω per metre for a Chloride based bridge
- Maximum temperature for continuous use is 100°C, but for short periods can be used up to 120°C.

The 3.2mm diam. (1/16" x 1/8") version is compatible with Omnifit compression and tube fittings. In special circumstances where a Chloride free environment is being used a bridge based on Potassium Sulphate is also available.

Typical lengths	2.4mm diameter part No.	3.2mm diameter part No.
300mm	ACMPB2403	ACMPB3203
500mm	ACMPB2405	ACMPB3205
1.0m	ACMPB2410	ACMPB3210
1.5m	ACMPB2415	ACMPB3215
2m	ACMPB2420	ACMPB3220