

# PermaFil Combination Ion Selective Electrode

- No refilling...ever
- Durable epoxy construction
- Reliable, accurate performance
- Low cost



**Analytical Sensors, Inc.**  
*Measuring Your Success<sup>SM</sup>*

# PermaFil Combination Ion Selective Electrode



**Analytical Sensors, Inc.** introduces the new PermaFil line of gel filled, sealed, combination ISEs. ASI PermaFil ISEs do not require filling...ever. ASI PermaFil ISEs eliminate the inconvenience and time consuming cleaning, flushing and maintenance of conventional refillable designs.



Like popular sealed, gel filled, combination pH electrodes, ASI PermaFil ISEs are always ready to use. PermaFil ISEs offer full performance and economical alternatives to ISEs costing hundreds of dollars more. Perfect for routine

samples or occasional measurements, ASI PermaFil ISEs offer convenience, ease of use and high performance out in the field or in the lab.

ASI PermaFil ISEs feature the unique PermaFil reference construction. The ASI PermaFil ISEs are sealed and require no filling solutions and no reference maintenance. Simply remove the protective cap, calibrate and measure. When you are finished with your ASI PermaFil ISE, merely rinse, blot dry and refit the protective cap.

Analytical Sensors, Inc. PermaFil ISEs combine reliability, durability and value while providing the analytical performance you require for precise, accurate ion determinations.

## General Specifications:

Overall length	150 mm (5.9 inches)
Body diameter	12 mm (.472 inches)
Cable length	3 foot low noise coaxial cable. Other lengths available upon request.
Connector	BNC. Other connectors available upon request.
Temperature	0-80°C for solid state models, 0-50°C for PVC
Body material	Epoxy

## Accessories supplied with each ASI Permafil ISE:

Reference fill solution	1 oz.
Ionic strength adjuster	1 oz.
Standard	1 oz.
Polishing Strip	2 ea (for solid state ISEs only)

Additional accessories can be ordered with various volumes and quantities.

## Solid State Permafil ISE:

Species	Model
Bromide (Br <sup>-</sup> )	BR43
Cadmium (Cd <sup>++</sup> )	CD43
Chloride (Cl <sup>-</sup> )	CL43
Cupric (Cu <sup>++</sup> )	CU43
Cyanide (CN <sup>-</sup> )	CN43
Fluoride (F <sup>-</sup> )	FL43
Iodide (I <sup>-</sup> )	ID43
Lead (Pb <sup>++</sup> )	PB43
Silver/Sulfide (Ag <sup>+</sup> /S <sup>=</sup> )	SS43
Thiocyanate (SCN <sup>-</sup> )	SQ43

## PVC Membrane Permafil ISE:

Species	Model
Ammonium (NH <sub>4</sub> <sup>+</sup> )	NH43
Calcium (Ca <sup>++</sup> )	CA43
Fluoroborate (BF <sub>4</sub> <sup>-</sup> )	BF43
Nitrate (NO <sub>3</sub> <sup>-</sup> )	NO43
Potassium (K <sup>+</sup> )	KT43



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