

Thermo Scientific Orion Fluoride Ion Selective Electrodes

The standard in fluoride ion analysis – EPA compliant

Approved ASTM Method for Fluoride in Drinking Water and Wastewater

Analyze free fluoride ions in aqueous solutions reliably at low limits of detection. Measurements are quick, simple, accurate and economical.

Thermo Scientific Orion fluoride electrodes feature high quality lanthanum fluoride pellet sensors. Choose from combination electrodes or half cell designs. The fluoride half cell electrode requires a separate half cell reference electrode.

Other Applications for Fluoride Electrodes

- **Phosphate:** Gran plot titration can determine phosphate in applications from animal feed to cleaning solutions to food and beverage
- **Ammonium Bifluoride:** Multiple known addition (MKA) titration method determines levels without need of removing interfering heavy metal ions
- **Aluminum:** Gran plot titration can determine micro and semi micro levels of aluminum

Accessories and Solutions

A full line of supporting accessories is offered to meet your measurement needs. A variety of calibration standards are available. Low level standards have the added convenience of being pre-made with total ionic strength adjustor (TISAB) and requiring that TISAB be added only to your samples. TISAB II requires a 50:50 dilution with the sample and is available in gallon bottles. TISAB III is a concentrate and requires a 1:10 dilution.

Convenient combination with reference



Half cell reference design provides flexibility



Combination fluoride ISE with Sure-Flow reference

- Fluoride surface can be easily cleaned using toothpaste and a lint-free wipe
- Built-in Sure-Flow reference provides fast and stable readings

Half cells – Fluoride ISE and Sure-Flow™ reference

- Fluoride surface can be easily cleaned using toothpaste and a lint-free wipe
- Use with the 900100 single junction or 900200 double junction reference electrodes

| Cat. No. | 9609BNWP | 9409BN 9409SC | 900100 |
|-------------------|--|--|-------------|
| Measurement Range | 1 x 10 ⁻⁶ M to saturated 0.02 ppm to saturated | 1 x 10 ⁻⁶ M to saturated 0.02 ppm to saturated | – |
| Temp. Range | 0 to 80 °C | 0 to 80 °C | 0 to 100 °C |
| Connector Type | BNC Waterproof | BNC Screw Cap | Pin Tip |

| Cat. No. | Recommended Accessories |
|----------|---|
| 940906 | 0.1 M NaF standard, 475 mL |
| 940907 | 100 ppm fluoride standard, 475 mL |
| 040906 | 1 ppm fluoride standard with TISAB II, 475 mL |
| 040907 | 2 ppm fluoride standard with TISAB II, 475 mL |
| 040908 | 10 ppm fluoride standard with TISAB II, 475 mL |
| 940909 | TISAB II, 1 gallon |
| 940999 | TISAB II, 4 x 1 gallon |
| 940911 | TISAB III concentrate, 475 mL |
| 900061 | Optimum results A electrode fill solution for 9609BNWP, 5 x 60 mL |
| 900001 | Fill solution for 900100 used with 9409BN/9409SC, 5 x 60 mL |



BNC Waterproof



BNC



Screw Cap



Pin Tip