

# IC Application Note No. S-79

**Title:** Four anions in corrosion powder

**Summary:** Determination of fluoride, chloride, nitrate and sulfate in corrosion powder using anion chromatography with conductivity detection after chemical suppression.

**Sample:** Corrosion powder

**Sample Preparation:** 5 g of powder extracted with 500 mL ultra pure water

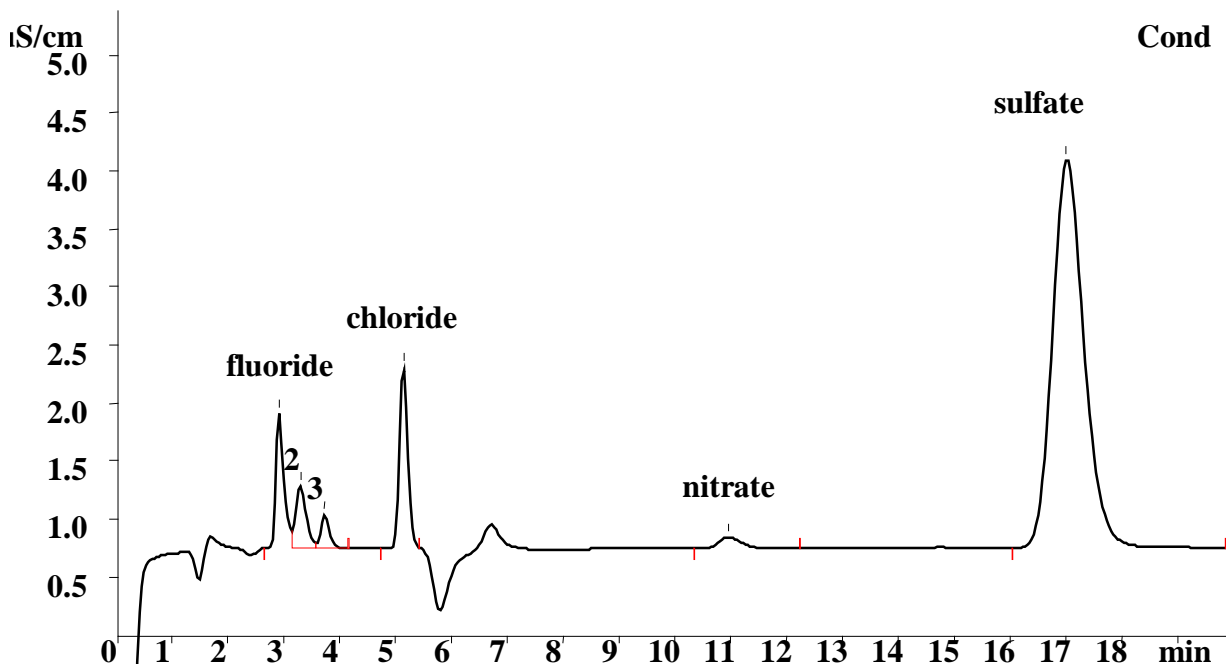
**Column:** 6.1006.100 Metrosep Anion Dual 2

**Eluent:** 2.0 mmol/L sodium hydrogencarbonate,  
1.3 mmol/L sodium carbonate

**Suppressor:** Metrohm Suppressor Module (MSM, 50 mmol/L H<sub>2</sub>SO<sub>4</sub>)

**Flow:** 0.8 mL/min

**Injection Volume:** 20 µL



<b>Results:</b>	Fluoride mg/kg	Chloride mg/kg	Nitrate mg/kg	Sulfate mg/kg
	69.6	161	45.7	1633