

**ANALYSIS REQUIREMENTS**

The following components should be measured in feedwater to ensure a full assessment of the scaling potential can be made. The following table provides details of the minimum acceptable levels of measurement. If the requested measurement accuracy cannot be provided the level of antiscalant dose projected may be higher than required.

Depending on the source of the feedwater and the final use of the product water selected other parameters may be requested. For example: heavy metals or boron.

Parameters may be provided as mg/l CaCO<sub>3</sub> or other units if desired. Carbonate/bicarbonate may also be provided as Mo and P alkalinity instead.

Parameter	Symbol	Measurement	Minimum Required Accuracy	Comment
Aluminum	Al	µg/litre	+ 0.05	
Calcium	Ca	mg/litre	+ 3	
Fluoride	F	mg/litre	+ 0.1	
Magnesium	Mg	mg/litre	+ 3	
Phosphate	PO <sub>4</sub>	mg/litre	+ 0.2	
Silica	SiO <sub>2</sub>	mg/litre	+ 1	Total silica should be measured
Strontium	Sr	µg/litre	+ 50	
Barium	Ba	µg/litre	+ 10	
Chloride	Cl	mg/litre	+ 5	
Iron	Fe	µg/litre	+ 50	Total iron and dissolved iron is useful
Manganese	Mn	µg/litre	+ 50	
Potassium	K	mg/litre	+ 5	
Bicarbonate	HCO <sub>3</sub>	mg/litre	+ 3	
Sodium	Na	mg/litre	+ 5	
Sulphate	SO <sub>4</sub>	mg/litre	+ 3	
Nitrate	NO <sub>3</sub>	mg/litre	+ 2	
Conductivity		µS/cm	+ 10	Provided as a double check on analysis. TDS can be provided instead
pH			+ 0.1	
Temperature		°C	+ 1	Seasonal max/min