



Chloride Meter

Chloride ions are one of the major inorganic anions in water and wastewater.

Although high concentrations of chloride in water are not known to be toxic to humans, its regulation is mainly due to adverse effects on taste.

It is essential to monitor chloride concentrations in boiler systems to prevent metal parts being damaged. In high levels, chloride can corrode stainless steel.

The level of chloride concentrations in boiler and cooling towers varies from small quantities to very high levels. Furthermore high levels of chloride can be toxic to plant life.

Drinking water: Chloride is a common non-toxic material present in small amounts in drinking water and produces a detectable salty taste at the aesthetic objective level of 250 mg/L (limit referred to the EPA Maximum Contaminant Level [MCL]). Measured levels are normally under 20 mg/L (ppm).



Specifications

HI 93753 (Chloride)	
Range	0.0 to 20.0 mg/L
Resolution	0.1 mg/L
Accuracy (@20°C/68°F)	±0.5 mg/L ± 6% of reading
Light Source	LED (Light Emitting Diode) 470 nm
Light Life	Life of the Instrument
Light Detector	Silicon Photocell
Battery Type / Life	1 x 9V / approx. 40 hours of continuous use; auto-off after 10 minutes of inactivity
Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing
Dimensions / Weight	180 x 83 x 46 mm (7.1 x 3.3 x 1.8") / 290 g (10 oz.)
Method	Adaptation of the Mercury (II) thiocyanate method. The intensity of color is proportional to the chloride ion concentration.

Accessories

HI 93753-01	Reagent kit for 100 tests (Cl ⁻)	HI 731318	Tissue for wiping cuvet (4 pcs)
HI 93753-03	Reagent kit for 300 tests (Cl ⁻)	HI 93703-50	Cuvet cleaning solution (230 mL)
HI 710009	Shockproof rubber boot, blue	HI 731321	Measuring cuvet (4 pcs)
HI 710010	Shockproof rubber boot, orange	HI 731325	Cuvet cap (4 pcs)

For a comprehensive list of accessories, see sections U and V