

DESCRIPTION

Product information "HI770 Checker HC ® - Silica, HR"

Silica is the name given to silicon dioxide, SiO_2 . Silicon, Si, is the most abundant element in the Earth's crust, 28% of it by weight. Silicon is never found free form in nature. In crystallized form it is only reactive under conditions of extremely high temperatures. Water and water vapor probably have little influence upon silicon solubility, because a protective surface layer of silicon dioxide is rapidly formed. Silicon binds with other elements to form various species of silica and silicate. The concentration of the soluble silica molecules are important to aquaculture because they influence (and limit) the growth of diatoms. In most waters, the predominant form of dissolved silica is monosilicic acid, which incorporates 2 water molecules.

The HANNA HI 770 Checker®HC is accurate and affordable. This portable handheld colorimeter features a resolution of 1 ppm (200 points) and ± 2 ppm $\pm 5\%$ of reading accuracy.

The contoured style of the HI 770 Checker®HC fit in your palm and pocket perfectly and the large LCD is easy to read. The auto shut off feature assures the battery life will not be drained if you forget to turn it off.

The HI 770 Checker®HC is simple to use. First, zero the instrument with your water sample. Next, add the reagents in order, respecting all the indications. Last, place the vial into the Checker®HC, press the operational button for about 3 seconds and the display will show the countdown prior to the measurement or, alternatively, wait for 2 minutes after last reagent adding and press operational button. The Checker®HC displays concentration in ppm of Silica as SiO_2 .