

HI770 · HI705

Silica High Range and Low Range

Handheld Colorimeter

- Easier to use and more accurate than chemical test kits
- Dedicated to a single parameter
- Small size, big convenience
- Ideal for:
 - Aquaculture
 - Water quality
 - Environmental
 - Water treatment

Silica is the name given to silicon dioxide, SiO_2 . Silicon (Si), is the most abundant element in the Earth's crust. Silicon is never found in its elemental form in nature. In its crystallized form it is only reactive under conditions of extremely high temperatures. Water and water vapor 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 two water molecules.

The HI705 and HI770 Checker®HC Handheld Colorimeters are a simple, accurate, and cost effective way to measure silica. Each model is designed for a specific range (low or high) in order to provide high levels of accuracy.

The contoured style of these Checkers HC fit easily in the palm of your hand or pocket 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.



SPECIFICATIONS	HI770 (HR)	HI705 (LR)
Range	0 to 200 ppm (as SiO_2)	0.00 to 2.00 ppm (as SiO_2)
Resolution	1 ppm	0.01 ppm
Accuracy	± 2 ppm $\pm 5\%$ of reading @ 25 °C (77 °F)	± 0.03 ppm $\pm 5\%$ of reading @ 25 °C (77 °F)
Light Source	Light Emitting Diode @ 470 nm	Light Emitting Diode @ 610 nm
Light Detector	Silicon photocell	
Method	Adaptation of the US EPA Method 370.1 and Standard Method 4500- SiO_2 C	Adaptation of the ASTM D859 Method of Heteropoly Blue Method. The reaction between silica and reagents causes a blue tint in the sample.
Environment	0 to 50 °C (32 to 122 °F); max. 95% RH non-condensing	
Battery Type	1.5V AAA Alkaline	
Auto-off	After 10 minutes of non-use	after three minutes of non-use and two minutes after reading
Dimensions	86.0 x 61.0 x 37.5 mm (3.4 x 2.4 x 1.5")	
Weight	64 g (2.3 oz)	
ORDERING INFORMATION	<p>HI770 Checker®HC is supplied with sample cuvette and cap (2 pcs.), Silica High Range reagent starter kit (reagents for 6 tests), 1.5V AAA Alkaline battery (1 pc.), and instruction manual.</p> <p>HI705 Checker®HC is supplied with sample cuvette and cap (2 pcs.), Silica Low Range reagent starter kit (reagents for 12 tests, 1.5V AAA Alkaline battery (1 pc.), and instruction manual.</p>	
Reagent Set	HI770-25 Reagents for 25 Silica High Range tests	HI705-25 Reagents for 25 Silica Low Range tests
Calibration Set	HI770-11 Silica High Range certified standard kit	HI705-11 Silica Low Range certified standard kit

See page 10.152 for Checker HC accessories

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