

## Silica Test Kit

### High Range

The HI38067 is a chemical test kit that determines the silica concentration in two ranges: 0 to 40 mg/L and 0 to 800 mg/L. The HI38067 is supplied with all of the necessary reagents and equipment to perform the analysis. The test kit contains enough reagents for perform approximately 100 tests.

- **Complete setup**
  - All required materials are included with the test kit, such as the glass vials, plastic pipette, reagent bottles and packets, and Checker® disc.
- **High resolution**
  - Readings from 0 to 40 mg/L are determined to 1 mg/L resolution.
  - Readings from 0 to 800 mg/L are determined to 40 mg/L resolution.
- **Replacement reagents available**
  - There is no need to buy a new kit when reagents are exhausted. The HI38067-100 can be ordered to replace the reagents supplied with the kit.

### Significance of Use

Silica is found in all natural waters in the dissolved mineral form. Silica is only slightly soluble in water and can be found as ionic silica, silicates, or colloidal or suspended particles. The solubility of silica is highly dependent on pH, temperature and pressure. Silica's presence in industrial applications, particularly high pressure turbines, is undesirable because of the scaling caused by the elevated temperature and pressure. Heating systems and reverse osmosis plants also require monitoring of silica to ensure process efficiency.



Specifications	HI38067 Silica (as SiO <sub>2</sub> )
Type	checker disc
Range	0-40 mg/L (ppm) 0-800 mg/L (ppm)
Smallest Increment	1 mg/L (ppm) 40 mg/L (ppm)
Method	heteropoly blue
Number of Tests	100 avg.
<b>Ordering Information</b>	<b>HI38067</b> test kit comes with 25 mL silica reagent A, 100 packets silica reagent B, 100 packets silica reagent C, demineralizer bottle with filter cap for 12 L, checker disc, glass vials with caps (2), 3 mL plastic pipette and 1 mL syringe with tip.
<b>Reagent</b>	<b>HI38067-100</b> silica HR (as SiO <sub>2</sub> ), 100 tests avg.

## Sulfate Test Kits

The HI38000 is a chemical test kit that determines the sulfate concentration in two ranges: 20 to 30 mg/L and 30 to 100 mg/L. The HI38000 is supplied with all of the necessary reagents and equipment to perform the analysis. The test kit contains enough reagents for perform approximately 100 tests.

- **Complete setup**
  - All required materials are included with the test kit, such as the glass test tube, plastic pipette, spoon, and reagent bottles and packets.
- **High resolution**
  - Readings from 20 to 30 mg/L are determined to 5 mg/L resolution.
  - Readings from 30 to 100 mg/L are determined to 10 mg/L resolution.
- **Replacement reagents available**
  - There is no need to buy a new kit when reagents are exhausted. The HI38000-10 can be ordered to replace the reagents supplied with the kit.

### Significance of Use

Sulfate is widely present within natural waters in different concentrations. Sulfate concentration is to be kept within a strict range for drinking water, especially since this value can be high near mine drainage points. Sulfate is also rigorously tested in the production of beverages such as beer, due to its significant effect upon odor and taste.



Specifications	HI38000 Sulfate (as SO <sub>4</sub> <sup>2-</sup> )
Type	turbidimetric
Range	20-30 mg/L (ppm) 30-100 mg/L (ppm)
Smallest Increment	5 mg/L (ppm) 10 mg/L (ppm)
Method	barium chloride
Number of Tests	100 avg.
<b>Ordering Information</b>	<b>HI38000</b> test kit comes with 100 packets sulfate reagent A, 53 g sulfate reagent B, 10 mL complexing agent, 50 mL glass test tube, 50 mL plastic vessel, 3 mL plastic pipette and spoon.
<b>Reagent</b>	<b>HI38000-10</b> sulfate, 100 tests avg.



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