



Van London Co.
"When Accuracy Matters"



MAGNESIUM ION SELECTIVE ELECTRODE

A novel Magnesium ISE has been developed which will provide greater accuracy in water hardness and many other applications (See below). Current water hardness electrodes prefer calcium over magnesium in a ratio of 50/1. In other words, their electrode response to magnesium ions is weak and overshadowed by their strong response to calcium ions.

Van London Co's new Magnesium Electrode prefers magnesium over calcium in a ratio of 10/1. This improved magnesium selectivity is important in samples where magnesium is the predominant ion, or in samples where magnesium and calcium levels are similar as found in water hardness applications.

This probe is a pvc membrane technology and can be fabricated into a variety of laboratory and industrial designs including glass body, rugged epoxy bodies, refillable or sealed reference chambers with ceramic wick junctions. Its operational range is 0.1 ppm to 50,000 ppm.

The VLC Magnesium ISE is suitable for direct water hardness measurement in water softening systems, drilling muds, mining, drinking water, mineral water, and sea water. It can also be accurately applied to monitoring total water hardness titrations.

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