



# Stable-Pak™ bags

The VHG line of aqueous single-element CRMs just got even better! We now offer our aqueous singles in aluminized Stable-Pak™ bags. These standards are now certified for 24 months total shelf life (or 12 months from the date of opening the Stable-Pak™ bag).

Stable-Pak™ bags are an aluminized packaging technology that conforms to the MIL-PRF-131K, Class 1 specification. Independent studies<sup>1</sup> have demonstrated that packaging aqueous inorganic standards in aluminized bags significantly reduces transpiration and improves the useful

shelf life of aqueous inorganic standards. Transpiration is the process by which water vapor passes through the container to the outside environment. This becomes an issue when standards are stored for a long period of time because the vapor loss results in increased analyte concentration. Aluminized bags reduce the rate of transpiration by creating an effective barrier between the inside of the bag and the outside environment, allowing equilibrium to be attained quickly after the bag is sealed. It creates a stable environment that resists temperature and humidity effects. Once opened, our high-purity HDPE bottles help to minimize moisture loss because the rate of transpiration through HDPE is significantly lower than through LDPE.



LGC Quality - ISO 17034 • ISO 9001 • ISO/IEC 17025 • ISO/IEC 17043

<sup>1</sup>Therese A. and Johanna M. Smeller. "Packaging of Spectrometric Standard Solutions and Transpiration."

For further information, please contact one of our local sales offices.

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