



SPECTRA PROTOCOL GASES

Gaseous Mercury (Hg⁰) Calibration Standards

Description With current and proposed worldwide regulations mandating the monitoring and/or control of mercury emissions, it is extremely important to have a reliable standard for required periodic calibration of the monitoring equipment. Through the efforts of the Research and Development Program of Linde Electronics and Specialty Gases, and our propriety cylinder passivation procedures, a stable gaseous mercury calibration gas standard is now available.

Linde supplies mercury calibration gas in high pressure, high volume cylinders. The mercury is present in the metallic state, Hg⁰, in a balance gas of research grade air or research grade N₂.

HiQ® Specialty Gases The HiQ® specialty gases program from Linde supplies high purity gases, gas mixtures, precision engineered equipment and gas distribution systems, and services and support, to a wide range of industries employing specialty gases applications.

HiQ® products represent Linde's commitment to the highest available quality and global consistency across gases, equipment and services.

Specifications	Cylinder Size	2A
	Cylinder Dimensions	8.0" dia. x 47.5" high (20 cm x 120 cm)
	Cylinder Weight	50 pounds (23 kg)
	Cylinder Internal Volume	1.06 ft ³ (30 liters)
	Cylinder Gas Volume	141 ft ³ (4000 liters)
	Cylinder Pressure	2000 psig (140 bar)
	Concentration Range	1 µg/m ³ - 60 µg/m ³ @ 20°C 760 mm Hg
	Stability Guarantee	(six) 6 months
	Cylinder Outlet	CGA 660
	Recommended Regulator	Model F7623 (see below)

Regulator Recommendation Linde recommends that regulators used for mercury calibration standards be specially constructed and treated to insure proper delivery of the standard.

Our Model F7623 stainless steel dual stage regulator is well suited for use with mercury calibration standards. All wetted components are either coated stainless steel or PFA. The internal stainless steel components are Silconert2000™ coated and then assembled. After assembly the regulator is pre-conditioned with Hg⁰ gas before final QC testing and shipment to the user.

The Model F7623 is available with a delivery pressure range of 0-100 psig.

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