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TECHNOLOGY GROUP

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Find the *NIST SRM 2517a* at our website: *Click HERE*

Wavelength Reference - Technical Glass, Inc.



Absorption Cells are available with or without protective box.

Technical Glass, Inc. manufactures and assembles the complete units, insuring exceptional control over the quality of the finished product.

Our experienced glassblowers produce each cell, which is then vacuum-tested, and individually filled under controlled conditions. The housing components are manufactured in-house by our skilled machinist.

As a final step, each unit is post-cured and verified for wavelength characteristics.

As an OEM manufacturer, we have instituted a quality assurance program which meets or exceeds the precise tolerances required to produce the wavelength reference units.

Features

The all-glass cell, produced with wedged windows, is hermetically sealed at an angle to minimize back reflections. Each cell is individually filled for higher accuracy. The shock-mounted aluminum housing securely holds the optical cell. Units are assembled using low back-reflection collimators.

Gases

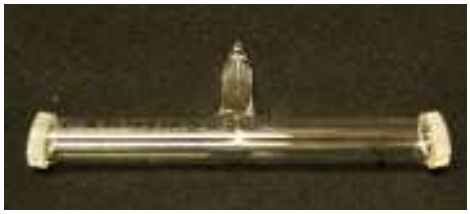
Acetylene,hydrogen cyanide, carbon monoxide, custom gases.

Housing

The cell can be enclosed in a protective aluminum housing. In addition, this compact package is available with or without fiber collimators.

Enclosure

The entire assembly is encased in a rugged box with FC/PC connection.



Optical Cell
featuring wedged and angled window design

	Hydrogen Cyanide TG-HCNWRU	**Acetylene** TG-C2H2WRU
Wavelength Uncertainty[1]	.6 picometers	.6 picometers
Gas Pressure	100 torr	50 torr
Wavelength nm	1530-1560	1510-1540
Line Width	.05nm	.025nm
Line Depth	Approx 40%	Approx 45%
Transmission	>35 %	>45 %
Optical Pathlength	225mm	50mm
Size of Cell	80mm long	55mm long
Size of Complete Unit	13L x 5W x 4H	10L x 5W x 4H

[1]projected uncertainty of +/-0.0006nm (coverage factor k=2)

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