

Photometric Accuracy Verification Filters

DISTRIBUTOR

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FEATURES

- NIST traceable validation standards for spectroscopy
- Metal-on-quartz neutral density filters
- Absorbance certified from 200 nm to 2000 nm
- Cross validation with laboratory
- For use with Kemtrak DCP007, SPECTRA and all laboratory spectrophotometers



Verifying photometric accuracy is essential for maintaining confidence in optical measurement systems. Kemtrak photometric accuracy verification filters are certified against National Institute of Standards and Technology (NIST) standards to ensure precise optical absorbance measurements.

A single set of verification filters is sufficient to validate both laboratory spectrophotometers and all Kemtrak process photometers, ensuring traceability and measurement reliability.

Spectroscopy is a widely used instrumental technique in analytical chemistry, particularly in the life sciences. It is also among the most regulated, with oversight from pharmacopoeias and quality assurance organizations worldwide.

Photometric accuracy ensures that the assigned wavelength provides correct readings. During testing, Kemtrak photometric accuracy verification filters are used to confirm whether the instrument's data aligns with the benchmark values of the standard.

Kemtrak photometric accuracy verification filters are manufactured from durable Inconel (metal) on quartz, ensuring long-lasting performance. Highly accurate and consistent spectrophotometer calibration guarantees reliable measurements, compliance with regulatory standards, and reproducibility of results in analytical applications.

For more information or assistance in selecting a suitable set of verification filters, please contact a Kemtrak sales representative.



SPECIFICATIONS

ABSORPTION RANGE

CAL-ND3PAK consisting of:
 CAL-NDBLANK 0.0 A (100% T)
 CAL-ND0.04 0.04 A (90% T)
 CAL-ND0.3 0.3 A (50% T)
 CAL-ND1.0 1.0 A (10% T)

WAVELENGTH RANGE

200 - 2000 nm measured in 5 nm increments

FILTER MATERIAL

Inconel on quartz glass

DIMENSIONS

12.5 x 12.5 x 45 mm
 Compatible with Kemtrak DCP007 & SPECTRA photometers with verification & calibration accessory
 Compatible with all spectrophotometers (that accommodate a standard 12.5 x 12.5 x 45mm cuvette holder)

STANDARDS

Full NIST traceability and compliance
 Surpasses NIST-2031a requirements
 European pharmacopoeia EP 11, chapter 2.2.25
 United States pharmacopoeia chapter <857>SP

Kemtrak is the leading manufacturer of high performance LED based industrial photometers and automation products for the process engineering industry.

Kemtrak provides tailor made solutions to meet the needs of a wide range of industries including chemical, petrochemical & offshore, biotech, pharmaceutical, food & beverage, pulp and paper and water & environment.

Kemtrak has trained representatives and support personnel globally and is certified according to ISO 9001:2015.