



CINSTAN

PARTICLE COUNTER CALIBRATION FLUIDS

CINRG CINStan particle count standards are compliant with ISO 11171 and traceable to **NIST SRM 2806d**. These standards are cost-effective secondary standards for the calibration, verification and control of optical particle counting instruments.

NIST has provided a traceable MTD based calibration fluid since 1997 and this was given an SRM identity number of 2806 (SRM 2806). To date a total of 4 batches of this primary calibration fluid have been produced, 2606, 2806a, 2806b and 2806d.

NIST SRM 2806d/ISO 11171:2022 The latest batch of Primary Calibration fluid was released by NIST in 2020 and this was accompanied by a further revision of the ISO11171 calibration standard. These two events were coordinated and have together effectively standardized on $\mu\text{m}(c)$ sizes for instrument calibrations which will ensure the integrity of ISO 4406 cleanliness codes going forward.

Notable Changes:

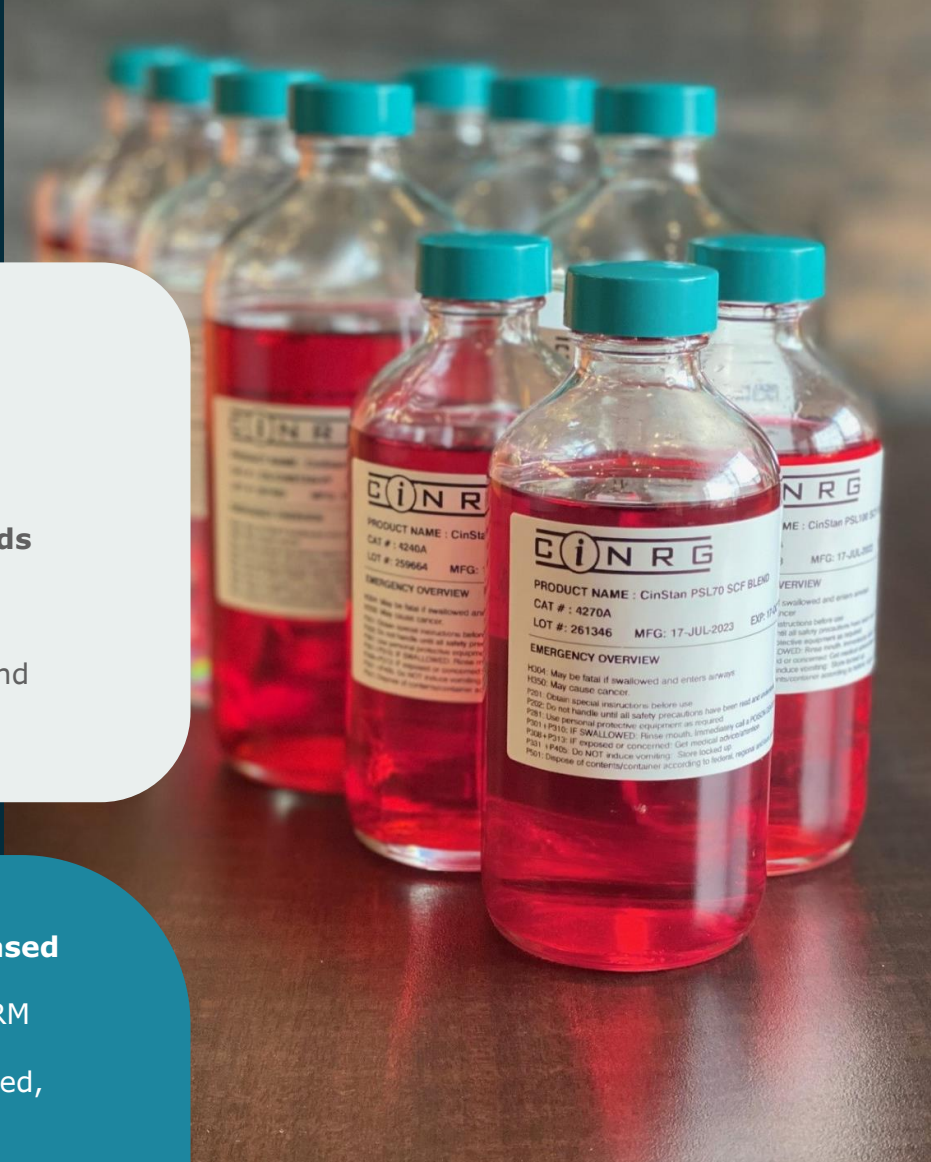
- Primary Calibration fluids are now being certified using inter laboratory studies (ILS).
- The new ISO standard prohibited the use of SRM2806b primary calibration fluid beyond December 2020 and removed the option of reporting counts for $\mu\text{m}(b)$ sizes. This standard came into effect from December 2020.

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FEATURES

- Traceable to the New NIST 2806d Standard Reference Material (SRM) released in March 2021 by the NIST for particle size counting
- Certified concentrations for four particle sizes: 4, 6, 14, and 21 $\mu\text{m}(c)$
- Complete with a Certificate of Analysis traceable to NIST
- Prepared in accordance to ISO 11171:2022



CINStan Calibration Kit

Part Number: CS-CINSTAN-CFK

Description: NIST traceable standard reference material and PSL standards blended in Super Clean Fluid suitable for calibrating a particle counting instrument.

Products (Kit Includes):

- **1 x CS-CINSTAN-2806** 2806d Calibration Fluid (400 ml)
- **1 x CS-CINSTAN-SCF** Super Clean Fluid (400 ml)
- **3 x CS-CINSTAN-PSL40/70/100** one each of 40µm, 70µm and 100µm monospheres & SCF blend (3 x 200 ml)



CINStan Process Control Standards

Part Number: CS-CINSTAN-PCS

Description: Low-cost NIST traceable standard reference material blended in an ISO 40 API Group II white oil suitable for validating control of a particle counting instrument.

Products (Kit Includes):

- **4 x CS-CINSTAN-PCS** Process Control Standard (4 x 400 ml)



CINStan Verification Fluids

Part Number: CS-CINSTAN-VF

Description: NIST traceable standard reference material suitable for validating the calibration of a particle counting instrument.

Products (Kit Includes):

- **4 x CS-CINSTAN-VF** Verification Fluid (4 x 400 ml)

Shelf-Life: CS-CINSTAN-2806, CS-CINSTAN-PCS, CS-CINSTAN-VF : 24 months from date of production (minimum 12 months with customer). CS-CINSTAN-PSL40, PSL70 & PSL100 : 90 days from date of production (minimum 60 days with customer). CS-CINSTAN-SCF : N/A.

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