

# NEW K-KIT FOR LIQUID TEM

FOR PRODUCT DETAILS AND COMPLETE SELECTIONS

[www.tedpella.com](http://www.tedpella.com)

*Liquid TEM for everyone*

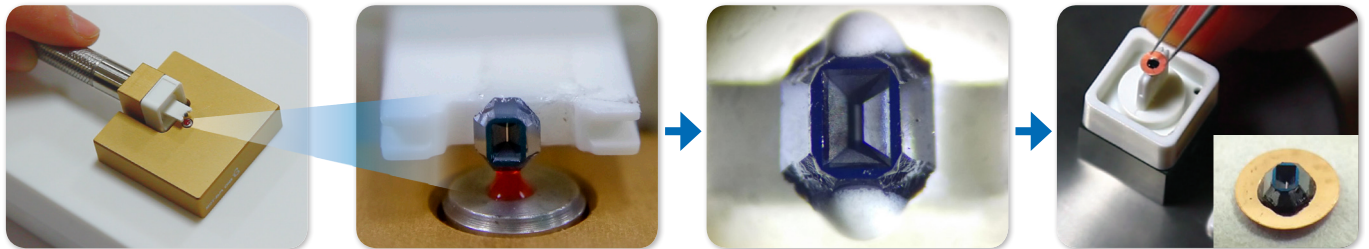
## THE K-KIT ADVANTAGE

- Easy-to-use
- Affordable
- No installation hassle
- Can preserve the sample for future re-examination



The K-kit is a single-use sealable carrier with a microchannel inside. It is made by ultraprecise MEMS micromachining from silicone, with a silicon nitride window. It fits inside a standard TEM grid and thus into all commonly used TEM holders.

## FILL, SEAL AND OBSERVE



The K-kit is easy. Just touch the carrier to a drop of your liquid sample to have it drawn inside by capillary force.

Seal ends with vacuum-proof Torr Seal® glue.

Mount inside a standard grid for TEM.

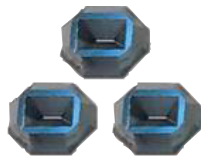
## SPECIFICATIONS

### Window

Si<sub>3</sub>N<sub>4</sub> thickness: 100nm

Width: 24µm

Length: 300µm

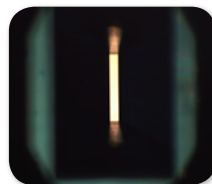


### Channel

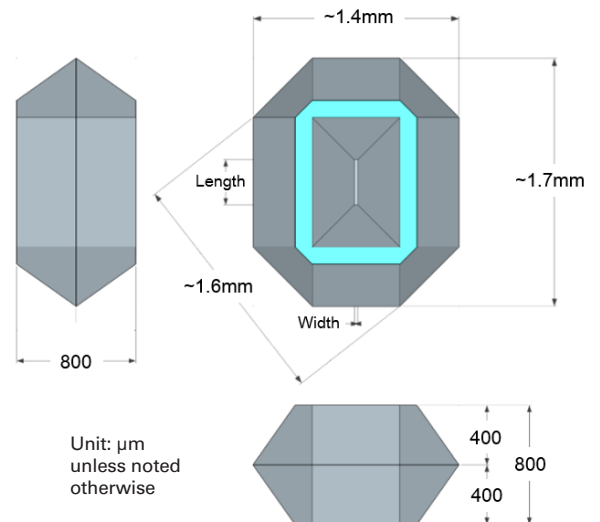
Width: 120µm

Gap heights available:

0.2, 0.5, 1, 2, 5µm



Top view of the observation window



**TED PELLA, INC.**  
Microscopy Products for Science and Industry

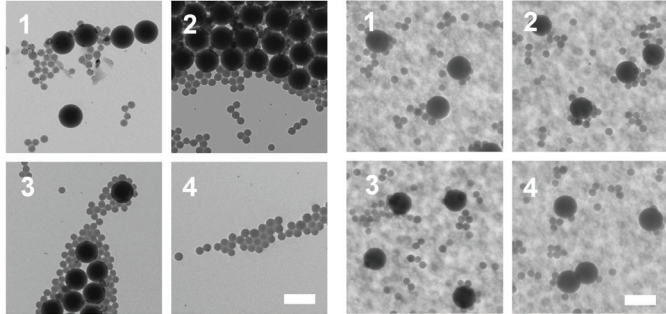
[www.tedpella.com](http://www.tedpella.com) [sales@tedpella.com](mailto:sales@tedpella.com) 800-237-3526

# NEW K-KIT FOR LIQUID TEM

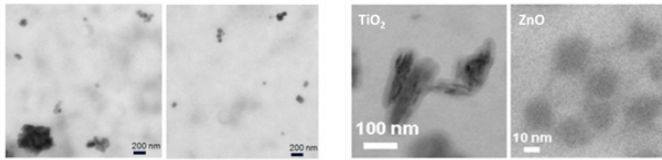
FOR PRODUCT DETAILS AND COMPLETE SELECTIONS [www.tedpella.com](http://www.tedpella.com)

Liquid TEM for everyone

## NANOMATERIALS CHARACTERIZATION USING THE K-KIT

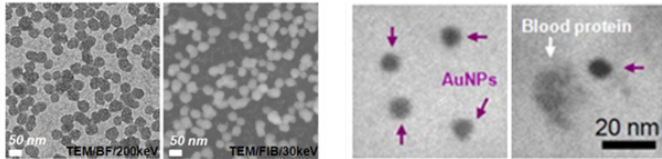


**See the difference:** NIST-traceable polystyrene beads in water are aggregated upon drying by conventional TEM preparation (left) but maintain their native state in K-kit carrier (right). Scale bar, 500nm.



CaCO<sub>3</sub> nanoparticle additives in milk

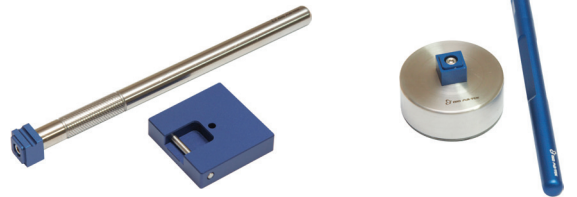
TiO<sub>2</sub> and ZnO in sunscreen lotion



SiO<sub>2</sub> nanoparticles in polishing slurry

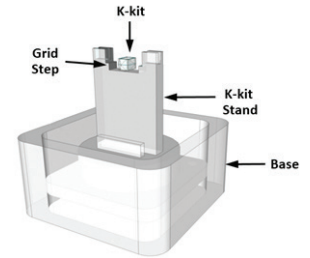
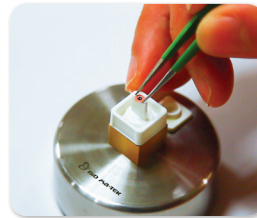
Gold nanoparticles (AuNPs) in blood

## TOOLS FOR EASY LOADING AND MOUNTING



K-kit Holder and Loading Stand

Gluing Stand and Needle Pen



K-kit container is designed to facilitate K-kit loading and mounting

We offer the K-kit as a complete toolbox, set in a deluxe carrying case. The tools, together with the carrier container, are designed to make loading and mounting of the K-kit carrier easy even for an inexperienced user. The toolbox also includes a starter supply of the consumables, everything to get you started doing liquid TEM.



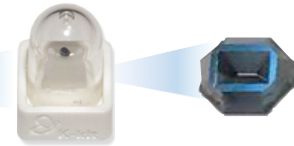
120-1 Complete Toolbox Set



120-4



120-6



K-kit in its sealed container

## ORDERING INFORMATION

120-1	K-kit Complete Toolbox Set, includes a 4-pack of carriers, 0.2µm .....	each
120-4	K-kit Carrier, channel height 0.2µm, pack of 4.....	pkg/4
120-5	K-kit Carrier, channel height 0.2µm, pack of 6.....	pkg/6

More coming soon, check [www.tedpella.com](http://www.tedpella.com)

©Ted Pella, Inc. 7-20-2017, Printed in U.S.A.



[www.tedpella.com](http://www.tedpella.com)    [sales@tedpella.com](mailto:sales@tedpella.com)    800-237-3526