

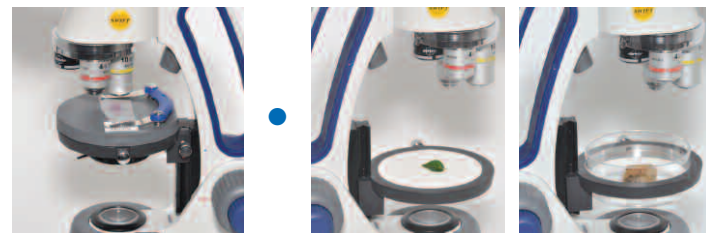


Swift® M3 Binocular Micro / Macro Field Microscope

The M3 series combines 3 microscopes in one! The M3 allows you to view both microscopic specimens, by using the compound objectives (4X, 10X, 40X) and macroscopic specimens, by the 2X macro objective. It is cordless, using energy efficiently by utilizing rechargeable LED illumination and compact so it is ideal for both classroom and field work applications. Through the unique configuration of objectives, the M3 achieves a magnification range of 20X-400X. Switching from compound to macro use is easy to accomplish by changing the objectives and adjusting the stage positions. All metal construction makes it durable for use in any environment. The unique tripod base keeps it steady, even on rugged outdoor surfaces.



Transitioning from microscopic to macroscopic



The Swift® M3 Binocular Micro / Macro Field Microscope includes a binocular head with W10XD, 18mm eyepieces; 4XD, 10XD, 40XRD Micro and 2x Macro Objectives; Stage Plate, Specimen Cup and Contrast Plate; Top and Bottom, separate or dual LED illumination. The extra bright, dual illumination is individually adjustable in intensity and is cool at any level. One 8 hour charge of the batteries provides 40 hours of use. The bulb is replaceable and can last as long as 50,000 hours. A built-in handle and all metal frame and internal parts provide for ease of use and long lasting performance. The optical limited lifetime warranty covers defective parts and workmanship for the life of the instrument.

2298 Swift® M3 Binocular Micro / Macro Field Microscope, each

Moticam Digital Microscope Color Cameras Can be used with the Swift® M3 Binocular Microscope:

- 2290-81** Moticam 1000, 1.3 Megapixel Digital Color Camera (1/8"), each
- 2290-100** Moticam 2000, 2.0 Megapixel Digital Color Camera (1/8"), each
- 2290-120** Moticam 2300, 3.0 Megapixel Digital Color Camera (1/2"), each
- 2290-125** Moticam 2500, 5.0 Megapixel Digital Color Camera (1/2"), each



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Forensic Stereo Microscope

The SMZ-168 provides clear real 3-D imaging with a convenient zoom magnification range from 7.5 to 50x provided by the combination of the Greenough optical system and the standard 10x super widefield eyepieces. The large working distance of 113mm coupled to the large field of view for the standard configuration makes this an ideal system for setting up a work station for preparation, dissecting, micro-assembly, forensics or quality assurance. Features top light for incident illumination and a bottom light for transmitted illumination. The optional trinocular port accepts an optional video C-mount and SLR camera adapters. The SMZ-168 Series Stereo Microscope is available with a large variety of stands and many options to configure this versatile system to your exact requirements. Shown above with the optional Moticam 2300, 3.0 Megapixel Digital Color Camera.

Illumination with Streamline base post stand

Top light is 12V/10W halogen for incident illumination with adjustable beam and variable control, includes blue filter. Bottom light is 12V/10W halogen light which provides bright light for transmitted illumination. Cool fluorescent 12V/5W bottom illumination available as an option on FBGF large post stand.

4 position light control: top only/bottom only, top&bottom on/off.

- 2282-10** SMZ-168BP Binocular Stereo Zoom Microscope with plane base stand, 35° head, WF 10x (FN23) eyepieces, each
- 2282-11** SMZ-168BL Binocular Stereo Zoom Microscope with streamline base, Incl. dual illumination, 35° head, WF 10x (FN23) eyepieces, each
- 2282-12** SMZ-168TP Trinocular Stereo Zoom Microscope with plane base stand, 35° head, WF 10x (FN23) eyepieces, each
- 2282-14** SMZ-168TL Trinocular Stereo Zoom Microscope with streamline base, Incl. dual illumination, 35° head, WF 10x (FN23) eyepieces, each
- 2290-120** Moticam 2300, 3.0 Megapixel Digital Color Camera, each

Forensic Equipment and Supplies

Forensic Gunshot Residue Field Kits



2-Disc GSR Field Kit, most common used by many departments. Prod. No. 16256-2



3-Disc GSR Field Kit, a control disc is added to the two sampling discs to enhance certainty of the analysis. Prod. No. 16256-3



4-Disc GSR Field Kit suitable for sampling palm and back separately on both hands. Prod. No. 16256-4



5-Disc GSR Field Kit, a control disc is added to the four disc sampling kit to make it compatible with FBI requirements. Prod. No. 16256-5

- 16256-2** 2-Disc Forensic Gunshot Residue Field Kit
- 16256-3** 3-Disc Forensic Gunshot Residue Field Kit
- 16256-4** 4-Disc Forensic Gunshot Residue Field Kit
- 16256-5** 5-Disc Forensic Gunshot Residue Field Kit



Forensic Gunshot Residue Lab Kit

Ten SEM pin mounts in clean, glass storage tubes (25mm OD x 55mm high) held in a compact transport box with labels. GSR Kit designed to avoid any contamination of the GSR samples. Available with or without mounts and tabs.

- 16259** Forensic Gunshot Residue Lab Kit: 10 SEM Pin Mounts (12.7mm), with mounted carbon tabs (12mm dia.) in Glass Tubes with Caps, 12 blank labels
- Sample Kit without pin mounts:**
- 16260** Forensic Sample Kit: 10 Glass Sample Tubes with Caps, 12 blank labels

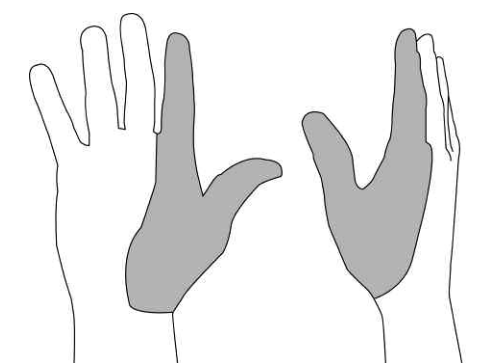
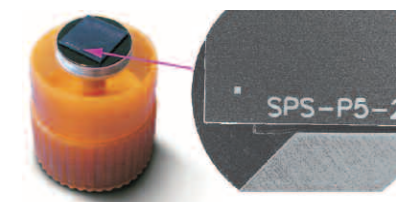
Forensic Test Specimen

Synthetic Particle Specimen for Gunshot Residue SEM/EDX Calibration.

The SPS-5P-1 is especially designed for the adjustment, calibration and validation of analytical SEM/EDX systems when used for automated analysis of GSR particles. It is especially suitable for quick system validation checks and quality assurance procedures.

For more information visit tedpella.com or refer to the more comprehensive brochure.

- 60806-4** SPS-5P-1 GSR Standard on 12.7mm stub (type A mount); 0.5, 0.8, 1.2 and 2.4µm, certified



A complete line of high quality GSR field sampling kits, containing certified SEM pin stubs with double coated adhesive carbon tabs in plastic tubes. The certified SEM pin stubs have very low amounts of Pb, Sb and Ba, not detectable by SEM/EDX. The caps hold the GSR sample disc for easy and secure GSR collection. The discs are ready to use and the tubes are pre-labeled for the sampling areas. Sturdy transport box is tamperproof sealed.

Each kit comes complete with:

- Certified SEM pin mounts with adhesive carbon discs in pre-labeled tubes
- Pair of powder free nitrile gloves
- Evidence label
- Sturdy cardboard transport box (4-1/2"W x 3-3/4"D x 3"H)
- Tamperproof seal
- Instruction sheet





Forensic Sampler

High purity pin stub specimen mount (see #16253) with and without an adhesive carbon conductive tab, mounted into the plastic cap of a glass specimen vial (25mm OD x 55mm high). The forensic field sampler has

been designed to collect forensic evidence with minimum interference and or contamination coming from the sampler.

Applications for SEM or light microscopy investigation:

- Gun shot residue (GSR)
- Fiber collection
- Particle sampling
- Glass fragments
- Paint chips
- Powder samples

Ideally suited for SEM specimen preparation on the most common used SEM pin stub and facilitates easy carbon coating for SEM/EDX investigation.

The forensic field sampler can be safely stored in the glass specimen vial and can be easily shipped since the cap holds the sampler stub in place. Evidence material is held by the adhesive carbon tab.

16250 Forensic Sampler without Adhesive Carbon Tab, pkg/100

16255 Forensic Sampler with Adhesive Carbon Tab, pkg/100



Numbered Gunshot Residue Sampler

Numbered, certified aluminum mount that has a double coated adhesive carbon tab applied to hold sample in a clean, glass vial (25mm OD x 55mm high). Packed in a box of 100.

16251 Numbered Gunshot Residue Sampler, pkg/100



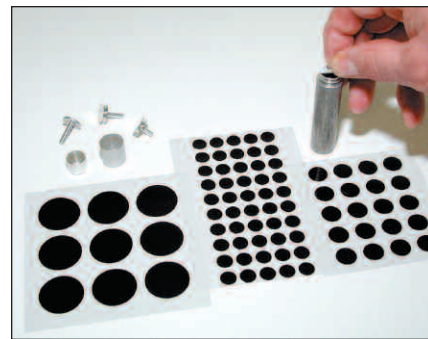
Single Mount Storage

Plastic storage tube for SEM Pin Specimen Mounts

The pin mount, 1/8" (3.1mm) pin diameter, is protected and held securely in the base

(cap) of the tube (Pin Mount #16253 sold separately). (24mm OD x 52mm high)

16630 Single Mount Storage, pkg/10



Carbon Conductive Tabs

To make your own forensic sampler. Both tab sides have a thick conductive adhesive (conductive inner film is 35µm and the adhesive is 45µm on each side for a total of 125µm [5 mils]) with a liner on both sides.

The conductive adhesive is a carbon filled acrylic glue, free of solvents. It can be removed from the specimen mount with ethyl acetate, ethanol, isopropanol or alcohols. Temperature maximum is 60°C (140°F). Small impurities of Si, Sb, S and very small impurities of Fe, Mg and Na can be found.

This product may also be used for gunshot residue analysis.

16084-3 PELCO Tabs™, Carbon Conductive Tabs, 9mm OD, pkg/98

16084-1 PELCO Tabs™, Carbon Conductive Tabs, 12mm OD, pkg/100

16084-2 PELCO Tabs™, Carbon Conductive Tabs, 24mm OD, pkg/54

"Spectro Tabs"

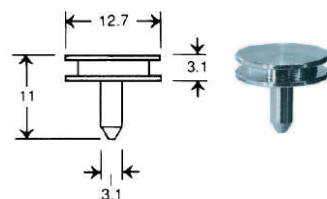
When you need higher purity carbon

A need existed for a tab with a purer composition in situations such as X-ray analysis. The EDX graph shows a cleaner and smoother surface for those applications that require critical composition study.

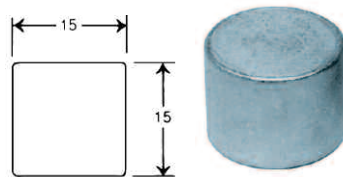
16084-4 Spectro Tabs, higher purity conductive carbon tabs, 12mm OD, pkg/120

Special Alloy Aluminum for Forensic Specimen Mounts

All our forensic SEM specimen mounts are made of special certified aluminum alloy. These special certified mounts do not contain elements which might interfere with the collected GSR evidence.



16253 Special Alloy Aluminum Pin Specimen Mount, pkg/500



16343 Special Alloy Al, 15 x 15mm Mount, pkg/500



Secure-Lock Tamper Resistant Labels

An Inexpensive Way to Safeguard Lab Shipments, Sealed Documents or Small Containers.

Once applied, these economical, peel-and-stick labels cannot be

removed in one piece! Instead, they are formulated to break apart when stressed, giving clear evidence that tampering has occurred.

Transparent labels display the words "TAMPER RESISTANT" in bold red ink. Ideal for use on boxes, bottles, shipping containers, parts envelopes, even file drawers. Comes in a handy dispenser box. Size 5/8" x 2-1/2" (16 x 65.5mm)

16250-1 Secure-Lock Tamper Resistant Labels, 5/8"x2-1/2", pkg/250



Plastic Zipper Storage Bags

4 mil thickness (0.1mm), plain

139-101 Plastic Zipper Bag, 2-1/2 x 3", pkg/100

139-102 Plastic Zipper Bag, 3 x 4", pkg/100

139-107 Plastic Zipper Bag, 5 x 8", pkg/100

2 mil thickness (0.05mm), with write-on area

139-301 Plastic Zipper Bag, 2 x 3", pkg/100

139-302 Plastic Zipper Bag, 3 x 4", pkg/100

139-307 Plastic Zipper Bag, 5 x 8", pkg/100



Barrier Foil Ziplock Bag

Shown with our Specimen Storage Box and DRICAP® Capsule Dehydrators, this barrier bag is ideal for storage of materials sensitive to moisture and/or oxygen. The inside dimension measures 6 x 5.5" with a zip lock and a tear notch above the zipper. The material is a metal foil-covered 4mil polyethylene with a MVTR (moisture vapor transmission rate) that is 1,000 times better than a typical poly bag. It is heat sealable and ziplock resealable.

139-310 Barrier Foil Ziplock Bags, 6 x 5-1/2" ID, pkg/100



PELCO Carbo-Probes™, Carbon Fiber Probes

Made with conducting carbon fibers. They are wear resistant and the soft tips do not scratch delicate surfaces. Ideal for positioning small specimens/parts/components. Also suited for forensic and microscopy applications. Three different types or a complete set.

13555 PELCO Carbo-Probe™, Set of 3 (Straight, Curved, Spatula) in plastic pouch

13555-1 PELCO Carbo-Probe™ MPT-1, Straight Point, 150mm L (5.9"), each

13555-2 PELCO Carbo-Probe™ MPT-2, Curved Point, 148mm L (5.8")

13555-3 PELCO Carbo-Probe™ MPT-3, Double Spatula, 140mm L (5.5")



Digital, Carbon Fiber Caliper, Certified

Switch from inches to millimeters at the touch of a button. Made of strong composite carbon fiber. Great for use in measuring scratch or damage sensitive materials. Will not corrode when used on tissue or other wet materials. This caliper will measure up to 6" (152mm).

The graduated scale on the caliper body is for approximate reference only, the exact measurement (accurate to ±0.1mm/0.01") is shown on the LCD display. Zero button instantly sets unit to zero when jaws are at any position.

Traceable to NIST for accuracy

54491 Digital Carbon Fiber Calipers with certificate, each



Carbon Fiber Reinforced Tweezers

These high performance precision, conductive, ESD safe, SV Carbon Fiber plastic tweezers are ideal for forensic, electronic and sample preparation applications where handling of scratch sensitive material or samples is required. The soft touch surface avoids cutting or damaging hairs, fibers, paper, bullets and rounds. Compatible for clean room applications and suitable for chemical processing. Light weight, strong material. Also ideal for magnetic applications, since the material will not be magnetized.

5412 Carbon Fiber Tweezers, sharp, 707, 114mm L, carbon reinforced PVDF, each

NOTE: See Website or Tweezers Brochure for the entire selection of Carbon Fiber Reinforced Tweezers.