
TECHNICAL INFORMATION

Arson Investigation Solid Sampler Kit

Catalog No. AEC300

Application	The collection of various types and quantities of solid samples and containment for transportation to the lab for analysis.
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Information

This kit includes a variety of evidence collection containers for both large and small solid samples from a fire scene. The AEC300 kit provides the basic tools to aid in the collection of small items. These tools include a small spatula, scissors, spoon and prober. The kit is used in conjunction with the No. AEC400 Arson Scene Tool Kit when large samples are required. The tool kit provides the means of collec-



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tion while the solid sampler kit provides the necessary components to package and safely transport the evidence to the lab.

<p>Hazards/Safety Info</p>	<p>Warning! Any and all solid samples collected at fire scenes have the potential to contain traces of harmful chemicals and/or accelerants and should be handled with caution.</p> <p>Caution! Wear chemical resistant gloves, safety glasses, and when necessary, a vapor filter respirator, chemical resistant overalls and shoe covers.</p>
<p>AEC300 Contents</p>	<ul style="list-style-type: none"> 1- 316M Magnifier, 2.5X, 2.5" dia. (6.3cm) 1- 606E Evidence Tape, 1" x 500" (2.5cm x 12.7m) 1- AEC011 Solid Material Evidence Container, 1 qt. (946ml) 1- AEC021 Solid Material Evidence Container, 1 gal. (3.9L) 2- AEC203 Glass Jars w/Polypropylene Nozecone Cap, 2 fl. oz. (59ml) 6- AEC205 Test Tubes, Polypropylene, High-Pressure and Vacuum Filtration 6- AEC206 Filters and Closures 1- KCP110 Pair of Scissors, 5" (12.7cm) 1- KCP155 Spatula, Steel Blade, 7" (17.8cm) 1- KCP142 Spoon, 12" (30.5cm) 2- AEC207 Glass Jars w/Polypropylene Nozecone Cap, 1 fl. oz. (30ml) 1- KCP138 Scalpel, Disposable, 5" (12.7cm) 18- EIL011 Evidence ID Labels "Crime Evidence" 1- KCP139 Plastic Tweezers, 4.75" (12.1cm) 2- KCP137 10cc Syringes w/Needles, Disposable 1- KCP140 Spatula, Stainless, Micro 1- KCP141 Prober w/Blade, Chrome Steel, 6" (15.2cm) 6- ZTE011 Zip-Top Evidence Bags, 4" x 6" x .004" (10.2cm x 15.2cm x 4 mil) 6- ZTE021 Zip-Top Evidence Bags, 9" x 12" x .004" (22.9cm x 30.5cm x 4 mil) 6- ZTE031 Zip-Top Evidence Bags, 13" x 18" x .004" (33cm x 45.7cm x 4 mil) 1- KCP224 Molded Polypropylene Case; Dimensions: 10.375" x 4.625" x 1.75" (26.3cm x 11.7cm x 4.4cm) 1- AEC300C Black molded copolymer case, textured w/handle and molded inserts; Dimensions: 17" x 13" x 7.375" (43.2cm x 33cm x 18.7cm); Weight: 8.6 lbs. (3.9kg)



FIGURE 1



FIGURE 2



FIGURE 3

Component Instructions

Test Tube Filters (No. AEC205)

1. Be certain that the filter is seated properly on the plunger.
2. Push plunger all the way down into the test tube (Fig. 1).
3. Pour the suspect liquid into the plunger well (Fig. 2).
4. Pull up the plunger out of the test tube slowly. The liquid will be drawn through the filter.
5. Rubber stoppers are provided for the test tube and plunger. Be certain to install these stoppers before shipping to the lab (Fig. 3).
6. The solids stay inside the filter, which may be removed and sealed in a bottle for transport to the laboratory.
7. Seal and label the tubes properly with the materials provided.

Note: Test tubes are supplied with cotton batting in place. The cotton is used to absorb liquids. Check with your laboratory as to whether they prefer to use cotton or not.

Maintenance

Keep the exterior of the carrying case clean using a mild soap solution. Thoroughly wash and dry all tools used from the kit. Do not reuse any of the containers. Restock the kit with fresh supplies immediately after use.

References

1. American Institute of Applied Science, Fundamentals of Arson & Explosion Investigation, Lesson 2, North Carolina: American Institute of Applied Science Press Cp.: 2006
2. Inter Fire Online, “Motive, Means, and Opportunity, A Guide to Fire Investigation”, <http://www.interfire.org/res_file/mmo5a.asp> May 5, 2009.
3. International Association of Arson Investigators. User’s Manual for NFPA 921 2nd Edition. Sudbury, MA. Jones and Bartlett Publishers, 2005.