Gravi-Sert™ Filter Capsule

Accessories		
PART#	DESCRIPTION	
37MMH-2	37mm 2-Piece Cassette Housings	
FSP37	37mm Cellulose Support Pads	
ZA0046	ZA0046 Cassette Opening Tool	
25MMH-2 25mm 2-Piece Cassette Housings		
FSP25	25mm Cellulose Support Pads	



The Gravi-Sert[™] filter capsule is a self-contained filter "cassette capsule" that captures all particles that enter a filter cassette. It consists of a PVC filter membrane sealed to a static-dissipative PVC shell to create the capsule.

In the laboratory, Gravi-Sert[™] filter capsules may be easily weighed on a microbalance and then assembled into a Zefon 2-piece filter cassette. After sampling, the entire capsule is easily removed from the cassette and weighed again to determine its post sampling weight.

Gravi-Sert[™] is suitable for sampling methods that require gravimetric analysis. This includes the following methods:

Carbon Black	NIOSH method 5000
Dust - Total	NIOSH method 0500
Dust - Respirable	NIOSH method 0600



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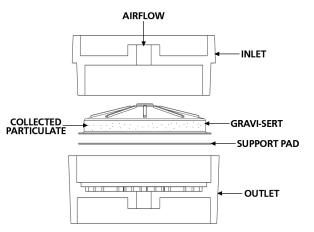
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LA03062 Rev 3

Shell Material:	PVC
Filter Membrane:	5.0µm PVC
Diameter:	25mm or 37mm
Veight: ~300 mg @ 50% RH (37mm versio	
-	~ 114 mg @ 50% RH (25mm version)

How it works

- 1. The Gravi-Sert[™] is weighed in the laboratory and then placed inside a 25 or 37mm 2-Piece filter cassette.
- 2. During sampling, as air enters the cassette, all particles that enter the cassette are captured inside the Gravi-Sert[™].
- 3. After sampling, the Gravi-Sert[™] is removed from the cassette and weighed in the laboratory.



Warnings

- Gravi-Sert[™] filter capsules are delicate and must be handled with care to prevent damage.
- Gravi-Sert[™] filter capsules must precisely fit the cassette inlet and outlet. They are designed to fit Zefon brand 25mm or 37mm 2-Piece filter cassette housings, model #25MMH-2 or #37MMH-2. Zefon has not tested nor can guarantee Solu-Sert capsules will fit any other brand of filter cassette.

Filter Cassette Assembly

- 1. Prepare cassette outlets with a support pad.
- 2. Carefully remove Gravi-Sert[™] capsules from packaging tube, taking care to not apply pressure or squeeze the packaging tube while holding it.
- 3. Weigh the Gravi-Sert[™] on laboratory balance per the analytical method being used and record the weight.
- 4. Place Gravi-Sert[™] into the cassette outlet with the filter side facing down.
- 5. Visually inspect the dome of the GraviSert[™] to make sure it has not been damaged or pushed inwards.
- 6. Place cassette inlet on top of cassette outlet, press and seal closed. Visually inspect cassette one final time to make sure dome is intact.
- 7. Insert inlet and outlet cassette plugs.
- 8. Mark the cassette with the weight, or mark with a reference number to enable the original weight to be referenced post sampling.





Post Sampling

- Carefully open filter cassette, taking care to open it slowly so the Gravi-Sert[™] does not fall or pop out. (Zefon offers a cassette opening tool, product # ZA0046, to aid in opening cassettes).
- 2. Weigh the entire Gravi-Sert[™] capsule to determine its post sampling weight. Compare to the pre-sampling weight per the analytical method being followed.