

Maryland Cremation Services

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Date: 3 July 2021

Subject: **Cremation Test of EMS Innovations Disaster Casket US Patent #8,079,119**

Background: The subject product was used in an actual cremation 1 July 2021 to determine whether the product is viable to use as a cremation container. The cremation was overseen by a Maryland licensed crematory operator with years of experience within a Maryland Licensed crematory using a recently inspected and calibrated cremator.

Results: The product performed well as a cremation container, mimicking the specifications and functions of a typical cremation container.

The product was able to contain a typical set of remains through the cremation process. The internal size of the product was found large enough to contain most case sizes within reason. Prior to the cremation, the remains were stored overnight on a set of storage shelves within a typical walk-in refrigeration unit. The product was the correct size to fit on the shelves and within the refrigeration unit.

During the insertion of the remains into the cremator, the product provided the rigidity and structure to allow for a safe, fluid and complete insertion without collapsing or getting stuck.

During the cremation process, the product did not produce or contribute to the release of any pollution or exhaust or particulate matter. The cremator pollution controls were not triggered. Upon completion of the cremation, no residual remains of the product could be detected among the ashes. Families should expect to receive ashes not comingle with other materials.

Cremation specifications:

Date: 1 July 2021

Location: Maryland Crematory, 408 Headquarters Drive, Suite 10, Millersville, MD 21108

Equipment: U.S. Cremation Classic-XCEL, a large capacity two-chamber cremator with primary and secondary burners using a total of 10 million BTUs of propane per cremation.

Duration: 1314 – 1504

Insertion Method: Hydraulic Lift Table with Rollers and Cardboard Rollers

Remains: 68 year old female at 125 lbs. (average cremation weight: 165 lbs.)

Exhaust Control Method: A single laser at base of the exhaust stack controls cremation burner when exhaust opacity reaches 20%

Weather: 85°F, no precipitation, wind speeds predominately between 5 and 9 MPH from the East

Additional Notes: The fully attached, foldable lid appears to prevent a potential source of pollution early in the cremation process that occurs with detached lids. Detached lids tend to catch fire and separate from the cremation container. The not fully cremated lid material tends to be exhausted as visible particulate matter.

The hole located along the bottom edge of the product requires a body bag to be used in conjunction with the product in order to contain any body leakage. The use of a body bag is a standard practice that a crematory should follow in most cases.

No compensation was received for the execution of the cremation test or the preparation of this report.

If you have any questions, please feel free to contact me.

Signed,

Sean P. Marshall

Crematory Supervisor
Owner