Updated 4/2024

**KSU Submission Form for Children’s Sleeping Bag Manikin Tests**

Please email this form in Word format to [merediths@ksu.edu](mailto:merediths@ksu.edu) each time you send bags for testing.

**1. Company information.** We will email the report and invoice to the contact listed below.

|  |  |
| --- | --- |
| Company name and address: | Contact name:  Email:  Phone: |

If another company is paying for the test and/or you want the invoice sent to another person, please indicate it here.

**2. Purchase order number for testing:**  List it here or send a PO document (optional).

**Dry manikin test to measure the insulation value of sleeping bags @ $600 = $**

**Hourly charge for GRA to capture and process thermal images @ $39 = $**

**Total = $**

**3. A modified version of ASTM F1720 will be used with Sonny – our child manikin. Select the protocol(s) you want:** ($600 per bag type).

A. Option #1 Bags are tested alone on a nude manikin (mummy bags with a hood are drawn around the face; rectangular bags without a hood drawn up to the neck with head exposed).

B. Option #2 Bag systems: **Mummy bags** are tested with auxiliary products. This method is often selected as the basis for predicting temperature ratings with KSU models.

B1. IER will provide long thermal underwear top and bottoms, thick socks, and a 1.5

inch self-inflating pad; mummy bags are drawn around the edge of the face.

B2. Sponsor will provide the following auxiliary products: (list below)

C. Option #2 Bag systems: **Rectangular bags without a hood** are tested with auxiliary products. This method is often selected as the basis for predicting temperature ratings with KSU models.

C1. IER will provide long thermal underwear top and bottoms, thick socks, a down

camp pillow, knit hat, and a 1.5 inch self-inflating pad; rectangular bags without a hood

are drawn up to the neck).

C2. Sponsor will provide the following auxiliary products: (list below)

**Replications.**

A. 3 replications of the test in a row (1 hour apart) on **1 bag sample** (fastest method)

B. 3 independent replications on **1 bag sample** (bag is taken off the manikin between tests)

C. 3 independent replications on **3 identical bag samples** of the same type

**Thermal imaging.** Do you want us to provide thermal images of each bag on the manikin in addition to the test results? ($39 per bag)  yes  no

**Local insulation values.** Do you want us to provide insulation data for the 16 body zones on the manikin in addition to the insulation value for the whole body?  yes  no

**Bag weight.** Do you want us to measure and report bag weight?  yes  no

**4. Bag letter or number codes:** Give the codes, style names, and descriptions for the report here.

**5. Return shipping information:** We will use the address above unless you give us other instructions. Please indicate if you want us to use overnight shipping.

|  |  |
| --- | --- |
| UPS Account #:  Federal Express Account #:  DHL account #:  Donate bags to a charitable organization | Shipping address if different from above: |

**6. Export Controls Compliance**

(a) Is the company or the individual named above contracting, working, or acting for or on behalf of a national government?  Yes  No

(b) If you answered ‘Yes’ to 6 (a), briefly describe the nature of the relationship with the national government \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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