Updated 4/2024

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

Please email this form in Word format to 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 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_