Updated 4/2024

**KSU Submission Form for Cold Weather Clothing Manikin Tests**

Please email this form in Word format to [merediths@ksu.edu](mailto:merediths@ksu.edu) each time you send a set of garments 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 and temperature rating for clothing**

**@ $600 = $**

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

**Total = $**

**3. Select a test type:** We will do three tests in a row on one sample ($600).

A. *Adult cold weather clothing*. ASTM F 2732 insulation values and temperature ratings at low activity (2 MET) and high activity (4 MET)

using the ASTM F 2732 base ensemble (long-sleeve knit shirt, jeans, socks, athletic shoes, fleece gloves, fleece hat)

using another base ensemble. Please list the garments below and provide them.

B. *Children’s cold weather clothing*. ASTM F 1291 insulation values plus KSU temperature ratings based on different activity levels and children’s ages.

using the IER base ensemble (long-sleeve knit shirt, jeans, socks, athletic shoes, fleece mittens, fleece hat)

using another base ensemble. Please list the garments below and provide them.

**Do you want us to calculate the average local thermal resistance value under the cold weather garment (i.e., on the torso and arms)?**  yes  no

**The measurements for the adult and child manikins are on the instruction sheet.**

**Thermal imaging.** Do you want us to provide thermal images of each cold weather ensemble on the manikin? ($39 per test)  yes  no

**4. Garment letter or number codes:** Give the codes and descriptions for the report here. Indicate clearly whether a jacket/pants set should be tested together, or the jacket should be tested alone, or the pants should be tested alone. For jackets with detachable liners, indicate whether we test the layers together and/or separately. (See example on instruction sheet.)

**If some of the jackets have hoods, please indicate if we can cut them:**

Test the jackets with the hoods up (hoods will be cut and pinned back together).

Test the jackets with the hoods hanging down or detached.

**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 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 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_