

Test Report

SL52605296005501TX

Date: April 02, 2026 Page 1 of 5

RAKME SAFETY DEVICES COMPANY

P.O BOX 3077, JEDDAH 21471, AL OTHMAN COMMERCIAL CENTER, BALADIA STREET, JEDDAH KINGDOM
SAUDI ARABIA

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : (A) REFRIGERATOR SUIT

Sample Color : (A) Dark Blue & Orange

Composition : (A) 300D OXFORD FABRIC

Style No. : CS013

Proposed Care Instruction : -

Test Performed : Selected test(s) as requested by applicant

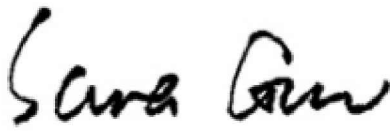
Sample Receiving Date : Mar 19, 2026

Testing Period : Mar 19, 2026 - Apr 02, 2026

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).

Conclusion	A	Remark
Temperature Rating for Cold Weather Protective Clothing	See Results	

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd



Sara Guo (Account Executive)



SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
Softline Laboratory

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COMPONENT LIST / List of Materials

Sample No.	Component No.	Description	Material	Color	Remark
A	1	GARMENT			
A	2	PANTS			



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Test Result

Temperature Rating for Cold Weather Protective Clothing

(ASTM F2732-23)

Sample 1+2

Test conditions

- 1 Air temperature: $5 \pm 1^\circ\text{C}$
- 2 Relative humidity: $50 \pm 5\%$ R.H.
- 3 Air speed: 0.4 ± 0.1 m/s
- 4 Test condition of sample: As received

Information of manikin

Height of manikin	1.68 m
Total surface area of standing manikin	1.7 m^2
Mean surface temperature of manikin	$35 \pm 0.2^\circ\text{C}$

Garments worn by manikin during testing (include base clothing and test sample)

Base clothing (which provide clothing insulation value of 0.8 clo +/- 10% as per requirement in the standard):	Ensemble #1: Long sleeve mock turtle neck shirt, jeans, men's underwear briefs, men's sock, athletic shoes, knitted fleece gloves (cuffs worn under jacket sleeves), knitted hat (worn pulled down to eye brows).
Arrangement of the garments on the manikin during the test	Shirt tail was hung over the pants Zippers were closed Buttons were closed Hood of sample was put on the manikin's head and tightened around the face

Test Results: Predicted temperature rating

Standardized total insulation value of the clothing ensemble and surface air layer (include test sample and base clothing):	3.09 clo
Predicted temperature rating for the cold weather clothing ensemble in °F or °C for 2.0 MET of activity (If only one temperature rating is given for a garment, the comfort temperature predicted for 2 MET of activity shall be used.):	16.2°F or -8.8°C
Predicted temperature rating for the cold weather clothing ensemble in °F or °C for 4.0 MET of activity:	-63.7°F or -53.2°C



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Remark:

1. Temperature ratings estimated are only guidelines for comfort and for ensembles (when wear with base clothing). It is the lowest environmental temperature at which a person can remain thermally neutral while wearing a particular clothing ensemble.
2. The effect of wind was not used in the model to estimate the temperature rating for comfort.
3. The effect of pumping effect (decrease in clothing insulation during body movement) was not taken into account in the model to estimate the temperature rating for comfort.
4. The model predicts a temperature rating for low activity (2 MET) and for high activity (4 MET).
A person who is - lying down or sitting perfectly still produces about 1 MET of heat.
- walking very slowly produces about 2 MET of heat.
- walking very fast produces about 4 MET of heat.
At higher levels of activity, a person will need less insulation and may begin to sweat heavily in the clothing unless he/she adjust the clothing.
5. Product labeling and advertising as per ASTM F2732 clauses 13.1.1, and 13.2:
- clause 13.1.1: It is recommended that manufacturers explain to consumers in their product literature that the temperature ratings (estimated based on ASTM F 2732) are for ensembles and provide a description of the garments worn with the cold weather clothing.
- clause 13.2: Temperatures should be rounded to the nearest whole degree on product labels and advertising.



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Sample Photo



Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.

End of Report

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