

TEST REPORT

2022AN6100

DATE OF RECEPTION

18/02/2022

DATE TESTS

Starting: 22/02/2022

Ending: 24/02/2022

APPLICANT

SARL VALANDRE
GRANDE VERSANE
BELCAIRE
Francia

Att. EMMANUELLE BERDÉ

IDENTIFICATION AND DESCRIPTION OF SAMPLES

REFERENCE	REFERENCE PROVIDED BY THE CUSTOMER	DESCRIPTION
2022AN6100-S01	SWING CO 450 GREY/BLUE MEDIUM LEFT (duck down 90/10)	Sleeping Bag
2022AN6100-S02	SWING CO 650 GREY/PURPLE MEDIUM LEFT (duck down 90/10)	Sleeping Bag
2022AN6100-S03	SWING CO 850 GREY/ORANGE MEDIUM LEFT (duck down 90/10)	Sleeping Bag

TESTS CARRIED OUT

- SAMPLE IDENTIFICATION.
- THERMAL INSULATION TEST FOR SLEEPING BAGS.

1 / 11

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Tests marked with * are not included within the scope of the ENAC accreditation



RESULTS

SAMPLE IDENTIFICATION

Reference	Description of the sample
2022AN6100-S03	Grey mummy sleeping bag (Weight: 1.324 Kg)



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RESULTS

THERMAL INSULATION TEST FOR SLEEPING BAGS

Standard

EN ISO 23537-1:2016 Punto 4.4 .4 + EN ISO 23537-1:2016/A1:2018

Equipment

Thermal manikin 12009I05

Observation or deviation from the Standard

Uncertainty of the measurement

± 9% of the value of the measurand for a coverage factor of $K = 2$ (95%).

Description of the test

The test is done with the thermal manikin Aitex code 12009I05 of 20 areas of measurements and made according to the ISO 15831 with a body temperature of 34°C. Results are according to the parallel model.

The manikin is wearing the following underwear: two-pieces blue suit with the upper part with long sleeves and long trouser, with a thermal resistance $R_{ct}=0.040$ to $0.060 \text{ m}^2\cdot\text{K/W}$. Knee-length socks with a thermal resistance $R_{ct}= 0.040$ to $0.060 \text{ m}^2\cdot\text{K/W}$. It is used a wooden board with covered with a mattress with thermal resistance $R_{ct}= 0.85 \text{ m}^2\cdot\text{K/W} \pm 7\%$. It supports with ridges.

Reference

2022AN6100-S03

Date test

22/02/2022

Ambient conditions in the climatic chamber

Chamber's temperature	10,6
Relative Humidity	49,2
Air speed	0,3 m/s

Pre-treatment

Dry tumbled in a dryer for 15 minutes at a temperature lower than 30°C.

Maniqui's posture

Posture 1 ($R_{c(1)}$): with protective mask.

Test results

Specimen	Thermal resistance $R_{c(1)}$ ($\text{m}^2\cdot\text{K/W}$)
1	1,318
2	1,324
3	1,318
Average	1,320

Range of utility

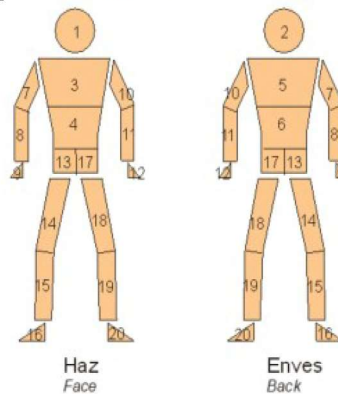
Comfort temperature T_{conf} (°C)	Limit temperature T_{lim} (°C)	Extreme temperature T_{ext} (°C)
-9	-16	-37

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Results by parts

Area (m ²)	Zone	Part of body	R _{ct} (m ² K/W)
0.04890	1	Face	0,664
0.09973	2	Head	1,025
0.12003	3	Chest upper	2,424
0.11649	4	Chest mid	2,161
0.10062	5	Back upper	1,137
0.10062	6	Back mid	1,326
0.07869	7	Arm upper right	1,241
0.06500	8	Forearm right	1,230
0.03669	9	Hand right	1,256
0.07869	10	Arm upper left	1,188
0.06500	11	Forearm left	1,286
0.03669	12	Hand left	1,049
0.07634	13	Hip right	1,767
0.14956	14	Thigh right	1,719
0.13170	15	Calf right	1,344
0.06006	16	Foot right	0,932
0.07634	17	Hip left	2,051
0.14956	18	Thigh left	1,482
0.13170	19	Calf left	1,202
0.06006	20	Foot left	0,892



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Miriam Martinez
Head of Comfort department



Date: 25/02/2022 13:10:18

Digitally Signed by: MIRIAM MARTINEZ ALBERT -

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