Test Report

TRECK S.A.
SANTA ROSA # 5220, SAN JOAQUIN,SANTIAGO,CHILE

THIS REPORT CANCELS AND SUPERSEDES THE TEST REPORT NO. SL517352921266TX DATE: Feb 22, 2018 ISSUED BY SGS (SHANGHAI)

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

Sample Description	:	Chaqueta Micropolar Absolute Zero Polartec Gris in grey
Style No.	:	CHAQUETA POLARTEC Code: 06-02-107
Buyer	:	TRECK S.A.
Order No.	:	M17025
Country of Destination	:	Chile
Proposed Care Instruction	:	-
Test Performed	:	Selected test(s) as requested by applicant
Sample Receiving Date	:	Dec 18, 2017
Testing Period	:	Dec 19, 2017 - Feb 22, 2018
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).

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

Hattie Chen

Hattie Chen
Account Executive

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Test Result

EN 14058:2017 Protective clothing – Ensembles and garments for protection against cool environments.

Clause 4.6 Resultant effective thermal insulation, I_{cler}:

Samples for testing in accordance with EN ISO 15831:2004 were conditioned in an atmosphere of 10±2ºC and 50±5% Relative Humidity for at least 12 hours prior to testing.

The effective thermal insulation (I_{cle}) and resultant effective thermal insulation (I_{cler}) were measured in accordance with EN 14058 (EN ISO 15831). Clothing was measured at an operative temperature of 10℃. Humidity inside the chamber during the measurements was 50% R.H. Air velocities around the manikin were 0.4 m/s. Surface temperature of the manikin was 34±0.5℃.

The total insulation I_{cle} given in the following table is an average value of two independent measurements of the clothing ensemble with standard reference clothing R (underwear with long sleeves and legs, shirt, socks, felt slippers, *jacket05,* trousers, knitted gloves, balaclava) where the reference *jacket05* was replaced on tested garment.

Tested: After 5 washes Type A washer, IEC reference detergent
Wash procedure: 3G(30℃) (tumble dry low)

Complete clothing ensemble	Resultant effective thermal insulation I_{cler}	
	[m^2K/W]	[clo]
Jacket (PPE249530) + Reference clothing R	0.191	1.2

Resultant effective insulation values of the clothing ensembles I_{cle} was calculated according to the parallel method as in EN ISO 15831:2004.

Result Summary

Test	Requirement	Results
Thermal insulation with reference clothing R. (standard underwear B)	EN 14058:2017, 4.6 $I_{cler} \geqslant 0.174$ m^2K/W $I_{cler} < 0.265$ m^2K/W	The tested garments **meet the requirement**.

The test was carried out by SGS UK textile laboratory.

*** End of Report ***

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