Test Report

No. SL5180522291513TX **Date: Jul 24, 2018**

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

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

Sample Description	:	Woven men's garment: in red/black/grey (parka absolute zero 3 en 1 rojo/negro/gris-polar interior negro)
Style No.	:	06-02-036
Buyer	:	TRECK S.A.
Order No.	:	M17042
Country of Destination	:	Chile
Proposed Care Instruction	:	Out:  Inside: 
Test Performed	:	Selected test(s) as requested by applicant
Sample Receiving Date	:	Apr 28, 2018
Testing Period	:	May 02, 2018 - Jul 24, 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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3rd Building,No.889,Yishan Road,Xuhui District Shanghai,China 200233 t (86-21) 61402666 f (86-21) 64958763 www.sgsgroup.com.cn
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 t (86-21) 61402666 f (86-21) 64958763 e sgs.china@sgs.com

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±2°C 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:

Outer:
After 5 washes
ISO 6330: 2012; Washing program No. 4N; Using horizontal axis, front-loading type machine: Machine wash at 40 degree C, with 2kg total dry mass (type III (100% polyester) ballast+ specimen) and 'ECE(A)' detergent+ Sodium Perborate+ TAED, line dry.

Inner:
After 5 washes
ISO 6330: 2012; Washing program No. 3N; Using horizontal axis, front-loading type machine: Machine wash at 30 degree C, with 2kg total dry mass (type III (100% polyester) ballast+ specimen) and 'ECE(A)' detergent+ Sodium Perborate+ TAED, line dry.

Complete clothing ensemble	Resultant effective thermal insulation I_{cler}	
	[m^2K/W]	[clo]
Jacket (PPE253835) + Reference clothing R	0.217	1.4

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**.

Remark: Tests denoted with an * in this test report have been subcontracted to another ISO 17025 Accredited Laboratory.

*** End of Report ***

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