



TC-5889

WOOL RESEARCH ASSOCIATION

(Linked to Ministry of Textiles, Govt. of India)

P.O. Sandoz Baug, Kolshet Road Thane-400607 (Maharashtra), India

Phone : (022) 25868109, 25868398 Fax : (022) 2586 8365

testing@wraindia.com (For Textile Lab), ecolab@wraindia.com (For Eco lab),

testing@wraindia.com, wra@wraindia.com



TEST REPORT

Representative Name:		Test Report No: W/T/3648 2022-23
Company/Customer Name:		ULR No : TC588918000003648F
Address & Contact Details:		Test Report Date: 15.12.2022
		Lab Sample Code No. : TM-3852

Sample Description by Customer :	RESQ "Cold Safe" Suit
Sample forwarding Letter No. & Date:	Nil dated Nil & Email dated 09.12.2022
Date of receipt of Sample:	08.12.2022
Number of Samples :	1
Date of Performance of test(s):	09.12.2022 to 15.12.2022

Image of Sample under testing		<p>Procedure of Assessment:</p> <p>Test method: DIN EN ISO 15831:2004</p> <p>Test Condition:</p> <ul style="list-style-type: none"> - Standard atmosphere for testing : relative humidity 65%, temperature 15°C - Thermal Manikin: Stationary Newton-WRA - Manikin body surface Area: 1.874m² - Manikin body parameters: body height: 182cm body weight: 30kg - Manikin body surface temperature : 35°C - Position of manikin during testing: in standing position without attached head mask - Air flow inside the climatic Room : 0.1-0.2 ms⁻¹ - Model of Calculation : Parallel Model - Pretreatment : No pretreatment before testing. - Number of tested specimens : 3×the same sample
	Jacket and Trouser	
Subject of Assessment	Thermal Properties : (Test Method EN ISO 15831:2004)	

Seema Patel
Joint Director (T & A)
Textile Testing Lab
WRA, Thane

****ISO 17025:2017 NABL Accredited Laboratories****

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Please write Test Report Number and date for all future correspondence.



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Sample Description by Customer : RESQ "Cold Safe" Suit

Test Results Summary:

Jacket and Trouser			
Characteristics	Test Method	Measuring Unit	Values identified
Standard Thermal Insulation R_{ct} - Average Value (Without any under garments)	Test method: DIN EN ISO 15831:2004	$m^2.K/W$ (Clo)	0.438 (2.823)
		Coefficient of Variation (CV%)	0.97

Effective Thermal Insulation of clothing I_{cle} and ambient temperature conditions for heat balance at different duration exposure (Ref. Table B.1 of EN 342:2004)

Insulation I_{cle} $m^2.K/W$	Wearing Standing Activity 75 W/m ²	
	8h	1h
0.438	7	-10°C

Requirement as per EN 342:2004

Table B.1 — Effective thermal insulation of clothing I_{cle} and ambient temperature conditions for heat balance at different durations of exposure

Insulation I_{cle} $m^2.K/W$	Wearer standing activity 75 W/m ²	
	8 h	1 h
0,310	11	-2
0,390	7	-10
0,470	3	-17
0,540	-3	-25
0,620	-7	-32

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