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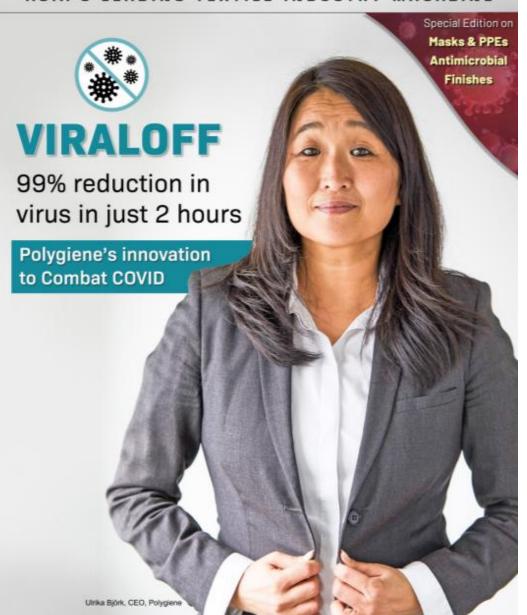
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TEXTILE MAGAZINE

ASIA'S LEADING TEXTILE INDUSTRY MAGAZINE

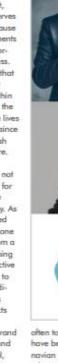




Polygiene is overall winner in Scandinavian Outdoor Group (SOG) awards 2020

Each year a jury from the SOG reviews new products and technologies across several categories. This knowledgeable and competent jury picked Polygiene's ViralOff® as the best new technology of the year. ViralOff was also declared overall winner of 2020!

"Although this is not a typical outdoor-product, Polygiene ViralOff deserves the Overall Award because it can impact developments way beyond the outdooror even apparel business. ViralOff is a treatment that kills 99% of the current viruses in two hours within a textile. When used in the facemasks, it will make lives for all of us a lot safer since you do not need to wash masks as often anymore. ViralOff contains silver salts and is considered not harmful for humans or for the environment" is the motivation from the jury. As Polygiene communicated recently, ViralOff has gone in just three months from a product mostly concerning masks and other protective gear in a niche market to a function - and ingredient brand - in all kinds of everyday use products like suits with Marzotto wools from premium brand manufactures, denim and casualwear from Diesel. and watches and wallets from Fossil. Antiviral treatments will be a key function of tomorrows aften-worn.

















ViralOff

POLYGIENE TECHNOLOGY

often touched items. "We have been part of Scandinavian Outdoor Group for a long time. The SOG has many strong and global brands and collectively is an authority and source of

inspiration - we are proud to be a part of it. That SOG gave us this award makes us really happy. Super happy in fact. It is a recognition that Polygiene ViralOff will play an important part in

the fight against the current pandemic as well as being a sustainable solution that allows articles to be worn more and washed less" say Niklas Brosnan, Marketing Manager at Polygiene. •



Log Reduction	Percentage Reduction		
0 log	0%		
1log	90%		
2log	99%		
3log	99.9%		
4log	99.99%		
5log	99.999%		
6log	99.9999%		
			



Q&A - Skin Safety

ViralOff®- the textile treatment technology

May 2020

Is it safe to have close to the skin?

The component of Polygiene ViralOff is only active in the treated material and does not interfere with the natural bacterial flora of the skin. In addition, the ViralOff additive has been patch tested at the Kawai Institute of Industrial Dermatology.

Will silver chloride be transferred when breathing close to the treated fabric?

The silver chloride in the Polygiene ViralOff treatment is only active in the fabric or material by its intermolecular force, and is not transferred. Our technology is also certified for Eco Passports by OEKO-TEX®. This guarantees our additive is not harmful to human health.

Quality Test Report



Test Report No. 20219067944-1

BOKEN

(Page 1 of 2)

Applicant: Polygiene AB

April 27, 2020

BOKEN QUALITY EVALUATION INSTITUTE

Reception Date: March 19, 2020

Osaka Functional Textile Testing Center

Item Name: 10130/1/1/62L035-1

Test results to submitted sample are as follows.

1-6-24 Chikko, Minato-ku, Osaka-shi, Osaka 552-0021, Japan

(Polygiene Treated Samples)

TEL.+81-6-6577-0200/FAX.+81-6-6577-0210

Number of Item: 3

Test Item: The test of the antiviral efficacy

Test Method: ISO18184: 2019 Textiles - Determination of antiviral activity of textile products

Infective titre measurement : Plaque assay

Washing Method: "Washing method of textile products with SEK mark" specified by Japan Textile

Evaluation Technology Council - Standard washing method

Test virus: Influenza A virus (H3N2): ATCC VR-1679

Test Result :

Test sample		The common logarithm average of infectivity titer value		The antiviral activity val lg(Va) - lg(Vc)	
Standard cloth	Immediately after inoculation	lg(Va)	6.58		
	After 2h	Ig(Vb)	5.91		
10130/1/1/62L03 (Polygiene Treated	7 1 1	lg(Vc)	2.40	4.2	
	(after fifteen wash)	Ig(Vc)	3.22	3.4	
" (after thirty wash)		lg(Vc)	3.86	2.7	

Notice - This test result is applied to the submitted sample, not to the lot. Unauthorized reproduction, in whole or in part, is strictly prohibited.



Quality Test Report

Test Report No. 20219067944-1

(Page 2 of 2)

Test Result:

	Verification of this t		HOGE HARVES -	Vision and the same	Lucione Const
	Test item	Criterion value	Test sample	Test result	Verification
a	The virus infective titer of inoculated concentration for the test (PFU/mL)	>107		1.6×10 ²	Pass
			10130/1/1/62L035-1 (origina)	No damage	Pass
Verification of cytotoxic effect No damage b Verification of cell sensitivity to virus and inactivation of antiviral activity	No damage	" (after litteen wash)	No damage	Pass	
		(after thirty wash)	No damage	Pass	
	<3	10130/1/1/62L035-1 (original)	0.2	Pass	
	\$ 50.5	" (after fifteen wash)	0.1	Pass	
	~		" (after thirty wash)	0.2	Pass
	Logarithm reduction value of infective titer of control specimen	≤1.0		0.7	Pass

BOKEN QUALITY EVALUATION INTITUTE Osaka Functional Teatle Testing Center

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SGS (Theland Limited Page 2 of 3

Test Report 4598764 Date : 18-May-2020

TEST RESULTS

Test Required : Antibacterial activity and efficacy of textile products Moraxella and Staphylococcus

(After 30 washes)

Test Method : JIS L 1902 : 2015 (Quantitative by Absorption method)

Measuring method for number of living bacteria: Plate count method

Test results

1. Standard cotton fabric (Evaluation of F value)

Test microorganism	The number of inoculated bacteria in untreased control sample immediately after inoculation (Log Co)	The number of inoculated bacteria in untreated control sample after 18 h incubation (Log Ct)	Growth value (F) = Log Ct - Log Co
Staphylococcus aureus NBRC 12732	4.3	75/	2.9

Verification for the test: The propagation value must be >= 1.0

2. Sample name : Knitted fabric in navy

Sample name	Log No. of living bacteria (Immediately after inoculation: Time 0 : Log To)	Log No. of living bacteria (After 18 h incubation : Log Tt)	A value antibacterial activity value (Log Ct - Log Co) - (Log Tt - Log To)	
As received	3.6	Less than 1.3	More than 5.9	
After 30 washes	187,	Less than 1.3	More than 5.9	

Measuring method for number of living bacteria: Plate count method Text results

3. Standard cotton fabric (Evaluation of F value)

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Date: 18-May-2020



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SGS (Thelest Limited

Test Report 4598764

TEST RESULTS

Test microorganism	The number of inoculated bacteria in untreated control sample immediately after inoculation (Log Co)	The number of inoculated bacteria in untreated control sample after 18 h incubation (Log Ct)	Growth value (F) = Log Ct - Log Co	
Moraxella osloensis ATCC 19976	4.6	7.5	2.9	

Verification for the test: The propagation value must be >= 1.0

4. Sample name: Knitted fabric in navy

Sample name	Log No. of living bacteria (Immediately after inoculation: Time 0 : Log To)	Log No. of living bacteria (After 18 h incubation: Log Tt)	A value antibacterial activity value (Log Ct - Log Co) - (Log Tt - Log To)
As received	4.5	Less than 1.3	More than 6.2
After 30 washes	4.5	Less than 1.3	More than 6.2

Note: Washing condition: JIS L0217-1995; Method 103, 40 degree c, normal cycle, flat dry.

Calculation:

- 1. Growth value on the control specimen (F) = Log Ct Log Co
- 2. Antibacterial activity value (A) = (Log Ct Log (So) (Log Tt -Log To)
- In the case of log Co > log To, substitute log Co for log To

Where

Log Co = Log No. of living bacteria on Standard cotton fabric, Immediately after inoculation: time 0 Log Ct = Log No. of living bacteria on Standard cotton fabric, After 18 h incubation Lot To = Log No. of living bacteria on Antimicrobial sample, Immediately after inoculation: time 0 Log Tt = Log No. of living bacteria on Antimicrobial sample, After 18 h incubation

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absorba. ViralOff

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ด้านล่าง

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VASA —ViralOff Fabric









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