ICM

FACTORY DIRECT

HEIQ

Washable 3 layers mask powered by HeiQ Viroblock

SWISS TECH INSIDE

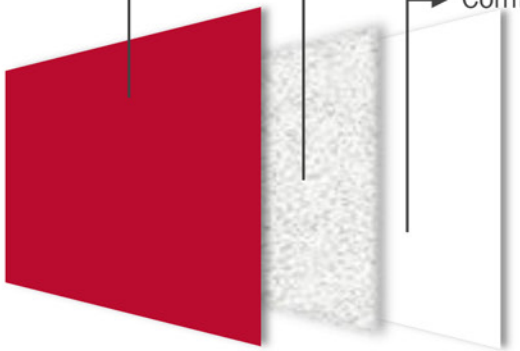
HeiQ Viroblock Washable Mask

Three layers of high-tech performance materials

Protection layer: **HeiQ Eco Dry** – ecological water repellent
HeiQ Pure – antimicrobial and odor control

Filter layer: **HeiQ Viroblock** – microbe resistant

Comfort layer: **HeiQ Smart Temp** – Activated cooling



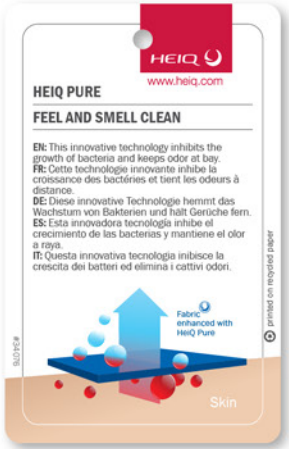
HEIQ VIROBLOCK
HEIQ ECO DRY
HEIQ SMART TEMP
HEIQ PURE

Material and treatments durable to washing at 40°C for 30 times.

Scan
to learn
more
HEIQ
ECO DRY
ECO-FRIENDLY
WATER REPELLENT
SWISS
TECH
INSIDE

HEIQ
www.heiq.com
HEIQ ECO DRY
EFFECTIVE AND ECO-FRIENDLY
EN: Stay dry and comfortable in any weather condition with this fluorocarbon-free fabric technology.
FR: Reste au sec et à l'aise par tous les temps avec cette technologie textile sans fluocarbone.
DE: Mit dieser fluorcarbonfreien Stofftechnologie bleibst du bei jedem Wetter trocken und fühlst dich wohl.
ES: Mantente seco y cómodo en cualquier condición climática con esta tecnología de tejidos sin fluorocarbono.
IT: Rimanere all'asciutto in qualsiasi condizione atmosferica con questa tecnologia per tessuti senza fluorocarburi.
Unique microscopic 3D structure makes water slide off
printed on recycled paper

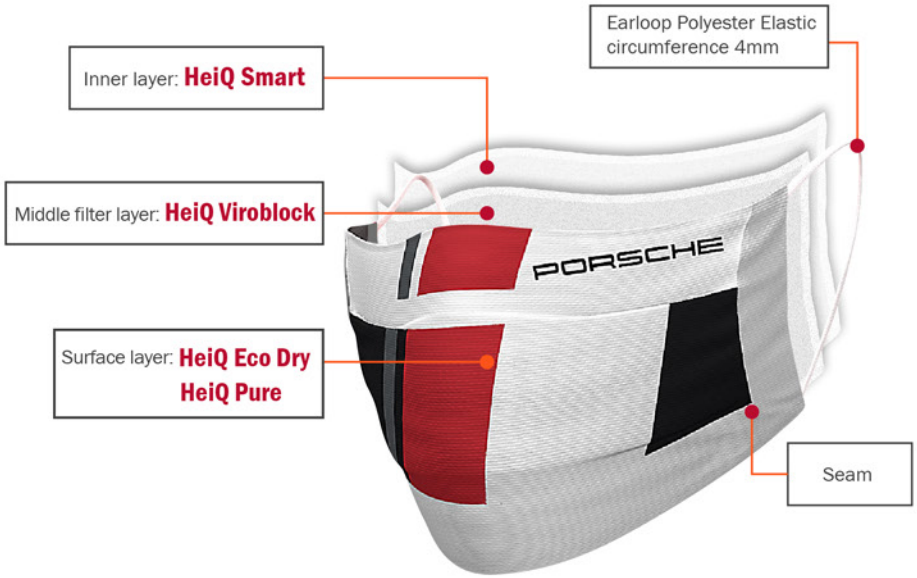
Scan
to learn
more
HEIQ
PURE
ANTIMICROBIAL AND
ODOR CONTROL
SWISS
TECH
INSIDE


HEIQ
www.heiq.com
HEIQ PURE
FEEL AND SMELL CLEAN
EN: This innovative technology inhibits the growth of bacteria and keeps odor at bay.
FR: Cette technologie innovante inhibe la croissance des bactéries et tient les odeurs à distance.
DE: Diese innovative Technologie hemmt das Wachstum von Bakterien und hält Gerüche fern.
ES: Esta innovadora tecnología inhibe el crecimiento de las bacterias y mantiene el olor a raya.
IT: Questa innovativa tecnologia inibisce la crescita dei batteri ed elimina i cattivi odori.
Fabric enhanced with HeiQ Pure
Skin
printed on recycled paper

Scan
to learn
more
HEIQ
SMART TEMP
INTELLIGENT
THERMOREGULATION
SWISS
TECH
INSIDE

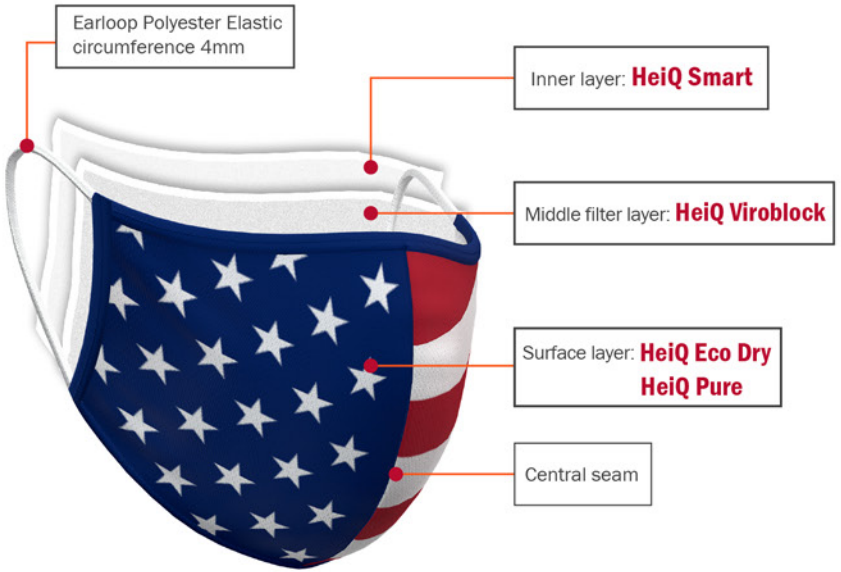
HEIQ
www.heiq.com
HEIQ SMART TEMP
ACTIVATED COOLING
EN: This innovative fabric technology cools you just right to keep you comfortable.
FR: Cette technologie textile novatrice te rafraîchit de manière à rester à l'aise.
DE: Diese innovative Stofftechnologie sorgt für Kühlung im richtigen Moment für einen optimalen Tragekomfort.
ES: Esta innovadora tecnología de tejidos te refresca lo justo para que estes cómodo.
IT: Questa tecnologia innovativa per tessuti ti rinfresca garantendoti il massimo benessere.
Smart
Temperature
Control
printed on recycled paper

3 LAYER FOLDED PLEATS



https://sketchfab.com/3d-models/face-mask-heiq-porsche-lettering-03-4dbaafb8c4904f2bbcc5b42ecf741f0a

NINJA FIT

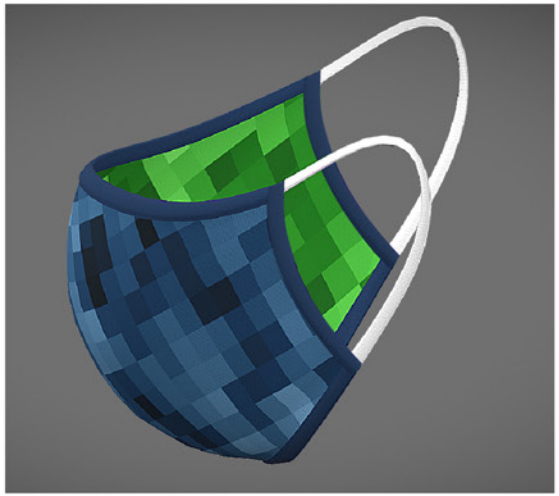


https://sketchfab.com/3d-models/face-mask--boston01-26e7a157a3eb4ab69678756339c8c2a2

More design options (further customization possible)

https://sketchfab.com/3d-models/face-mask-myrocket-fcb-diagonal-2-acb3288cef764b87ad011bd7e8c2ebb4

https://sketchfab.com/3d-models/face-mask-easton-camo-6501a776a41747ba8ff8ddd26dc10e38



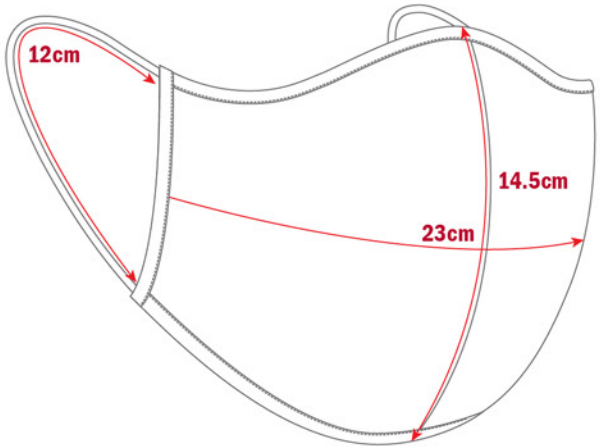
https://sketchfab.com/3d-models/face-mask-boys-pixel-mask-green-8385a210710c4cb6a5dd71cc0435461b

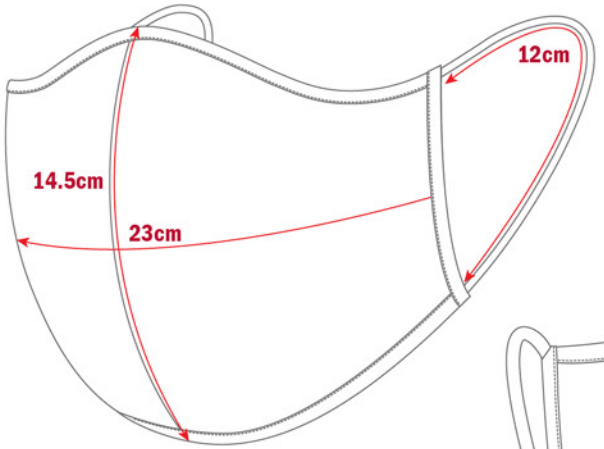
Size

RIGHT

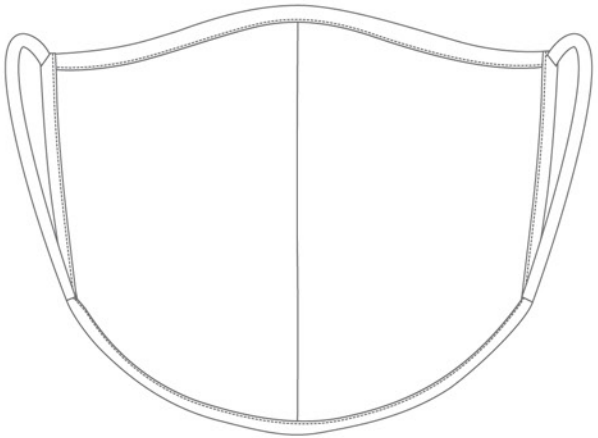
Surface layer

LEFT





INNER LAYER

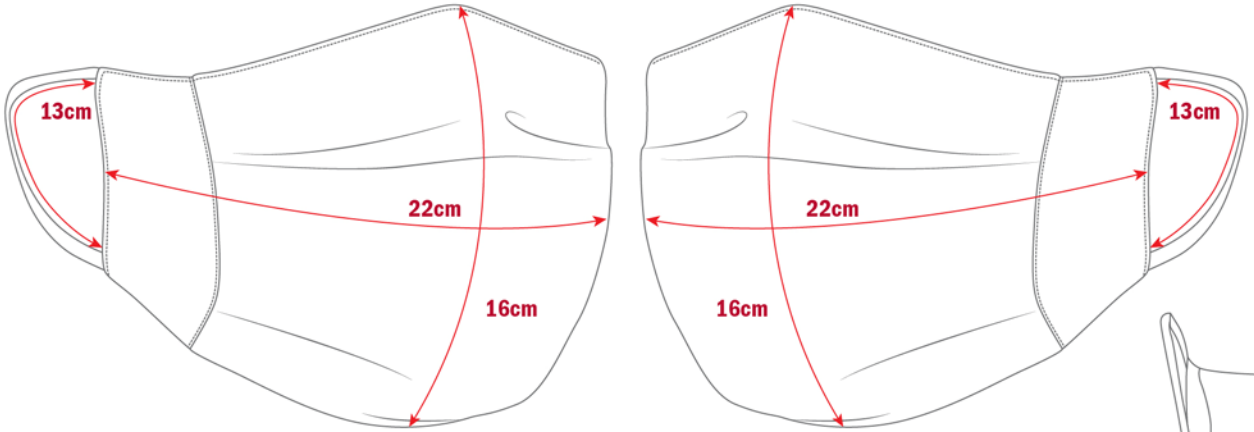


Size

RIGHT

Surface layer

LEFT



INNER LAYER

Technical details

Covering the mouth, nose and lower part of the jaw, providing a certain physical barrier to prevent direct penetration solids and non-oily liquids under every-day conditions.

Surface layer	Fabric: 100% polyester, 140-150gsm Coating: **HeiQ Eco Dry** – ecological water repellent **HeiQ Pure** – antimicrobial and odor control Benefit: prevent droplets and other liquids from penetrating the mask. Antimicrobial effect inhibits spoilage by harmful microorganisms of the mask surface & prevents odor.
Middle filter layer	Material: Non-woven 100% polyester, 20gsm Treatment: **HeiQ Viroblock** – microbe resistant Benefit: boosts the protection to the filter materrial by making it resistant to harmful microorganisms, preserve maximum cleanliness and extend its usability.
Inner layer	Fabric: 100% polyester, 140-150gsm Treatment: **HeiQ Smart Temp** – Activated cooling Benefit: Soft to the skin, activated cooling technology transports moisture away quickly to avoid discomfort due to accumulation of water vapor from speaking and breathing.
Specifications:	Adult One Size 22cm wide x 10cm height
Antimicrobial effect:	Product treated with silver chloride on titanium dioxide (EU BPR compliant)
Fabric specifications:	Materials: 140-150gsm - 100% polyester, knitted Yarn size: DTY 100/96 + 75/72 Thread: Coats thread tex 24 Epic 100% Polyester/Gramax tex 24 Textured Polyester Stitch Length: 1cm = 5 stitches
Washing instruction	• Do not tumble dry • Do not use fabric softeners • Do not dry clean • Do not bleach • Do not direct iron

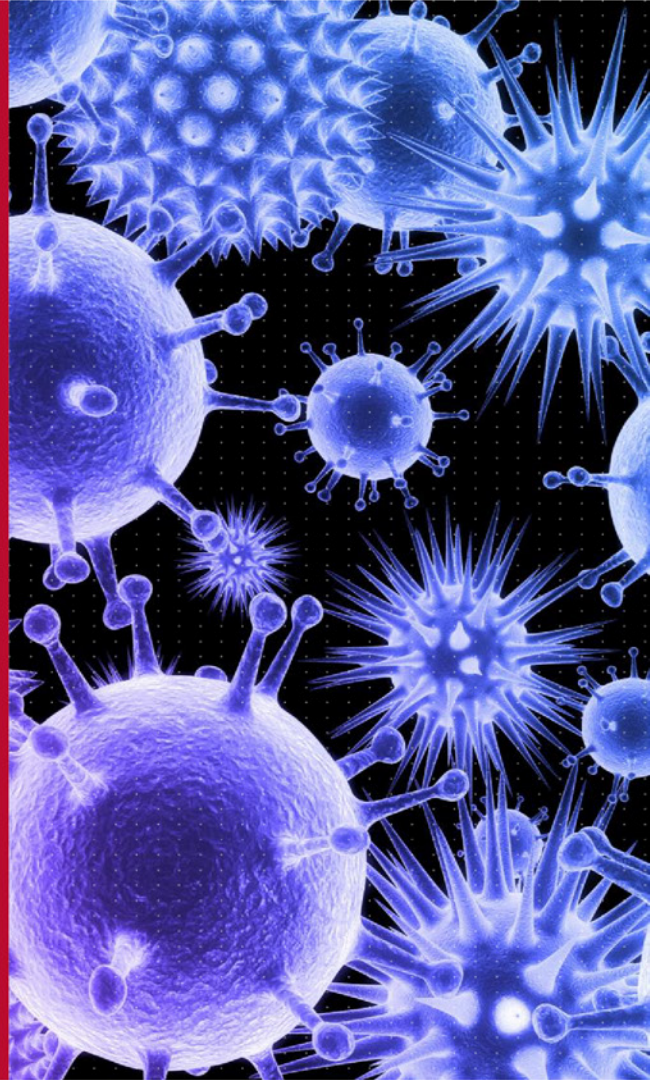
HEIQ VIROBLOCK

Antiviral & Antibacterial protection

14 April 2020

SWISS TECH INSIDE

HeiQ Viroblock NPJ03



HeiQ Viroblock NPJ03 – antiviral textile technology

- Effective protection against contamination and transmission of viruses and bacteria that use textiles as a hosting surface
- Kills bacteria and destroys viruses in minutes
- Effective against common harmful viruses such as influenza and coronavirus
- Breakthrough combination of two leading HeiQ technologies:
  - HeiQ's registered silver technologies for antiviral and antibacterial effect
  - HeiQ's fatty vesicle technology as a booster that destroys viruses
- Harnesses the natural antiviral and antibacterial properties of silver

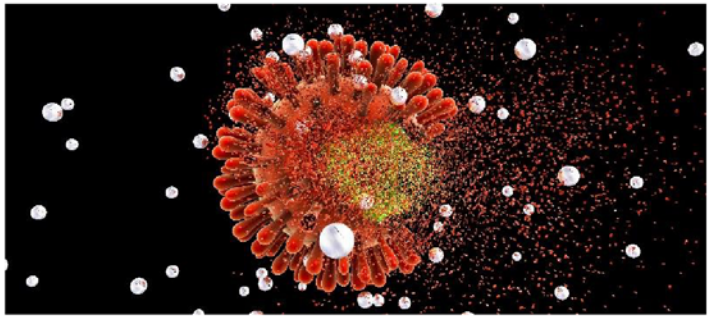
Technical USPs

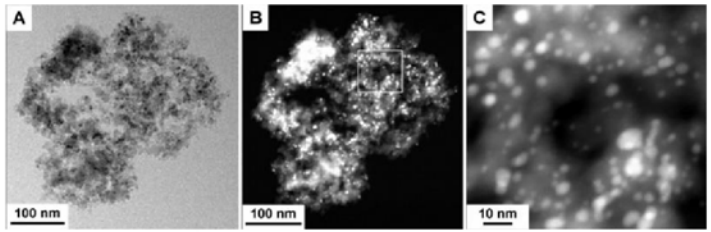
- ✓ Non-dangerous good: logistics and storage convenient
- ✓ Can be applied to all types of fabrics and nonwovens
- ✓ Standard continuous wet-processing applications (padding, kiss-roll etc.)
- ✓ Application 5% to 20% w.o.f.

Oekotex, Bluesign, ZDHC: pending for approval

HeiQ Viroblock – Silver component

- Small silver particles are potent antibacterial and antiviral agents due to high surface area to volume ratio and unique chemical and physical properties [5)]
- Small silver particles are effective against viruses, effectively eliminating them following short exposure of isolated viruses to silver [5)]
- Silver attracts the oppositely charged viruses and binds permanently to their sulfur groups
- HeiQ small silver particles contribute to a broad-spectrum of antiviral mechanisms that are not prone to inducing resistance



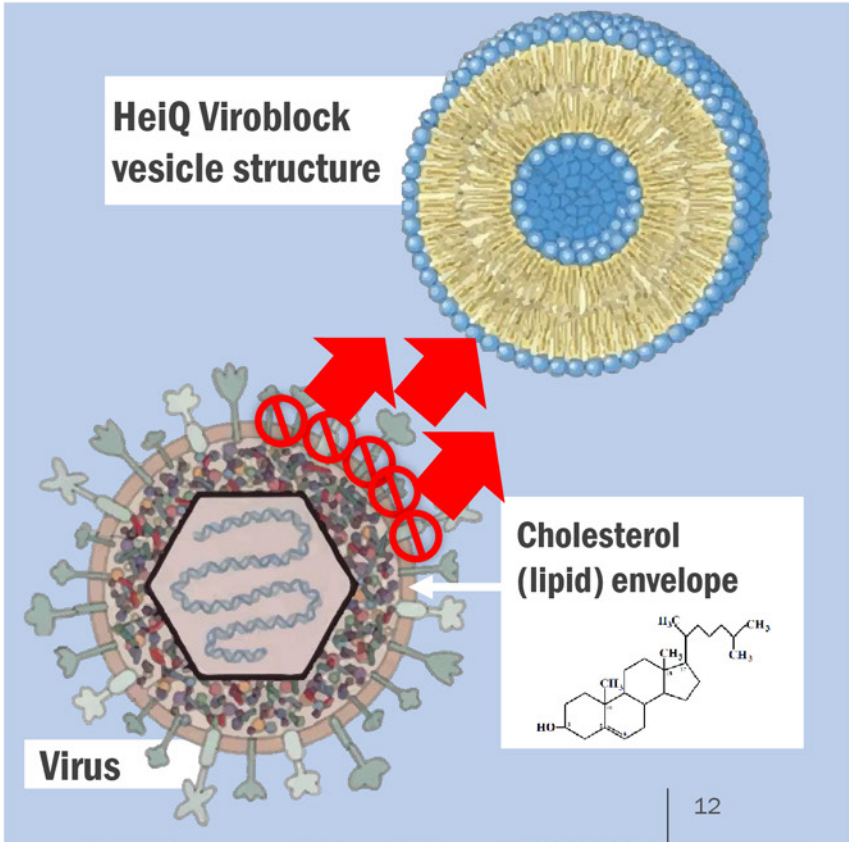


6) A) Transmission electron micrograph showing an amorphous silicon dioxide aggregate particle (gray structure) together with numerous supported silver metal particles (dark spots). (B) Scanning transmission electron micrograph of the structure shown in panel A, providing better contrast between the silica structure (gray) and the silver metal particles (bright spots). (C) Higher magnification of the region in panel B enclosed in a box. The silver metal particles are typically between 1 and 10 nm in diameter.

5) Stefania Galdiero et. al. (2011) "Silver Nanoparticles as Potential Antiviral Agents", molecules 2011, 16, 8894-8918.
6) Egger et. al., 2009. Antimicrobial properties of a novel silver-silica nanocomposite material. Appl. Environ. Microbiol., 75(9), pp.2973-2976.

HeiQ Viroblock – Vesicle component

- HeiQ Viroblock vesicle technology (Liposomes) works as a booster
- The fatty spherical vesicle technology functions by directly targeting the lipid envelope (membrane) surrounding the virus
- The vesicle technology helps to deplete the viral membrane of its cholesterol content thereby destroying the virus
- The vesicles rapidly destroy the virus through a physical contact mechanism



Aerosol challenge test

View detail: https://www.epa.gov/sites/production/files/2014-04/documents/pr2000-1.pdf

- ***About the HeiQ Viroblock:***

_ The masks are a community mask, so not registered as medical device or under special FFP2 standards. Therefore we are not allowed to make any health related claims. We can only inform what our HeiQ Viroblock chemical does on the surface. It's effective against bacteria and viruses.

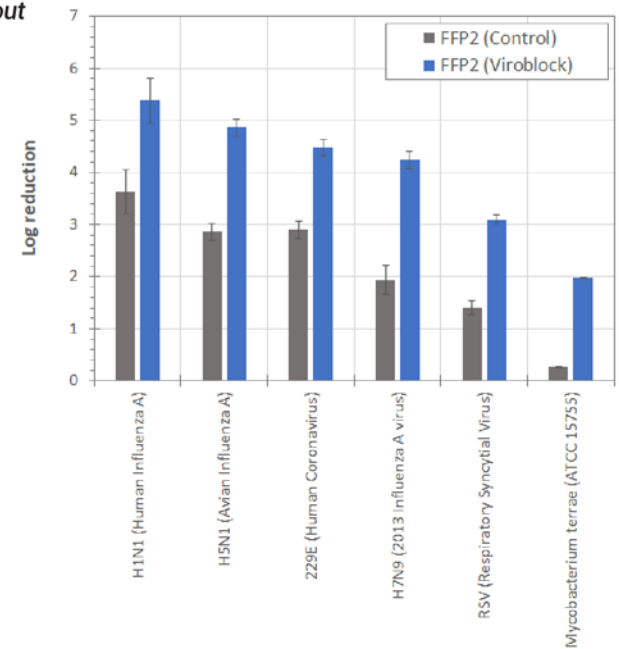
_ It is absolutely logical that the inactive viruses and dead bacteria can not harm the person afterwards. But we cannot guarantee that the person wearing the mask will never get a virus. So in short: no human related health care claims, only claims about the chemical and the textile.

FFP2 face masks (untreated control vs. HeiQ Viroblock treated)

		Log reduction			% reduction	
Study ID	Agent	Control	Viroblock	⊠ *	Control	Viroblock
798-110	H1N1 (Human Influenza A)	3.63	5.38	>50x	99.9766%	99.9996%
798-111	H5N1 (Avian Influenza A)	2.86	4.86	100x	99.862%	99.999%
798-112	229E (Human Coronavirus)	2.90	4.48	>30x	99.874%	99.997%
798-114	H7N9 (2013 Influenza A)	1.93	4.24	>200x	98.825%	99.994%
798-115	RSV (Respiratory Syncytial Virus)	1.40	3.10	>50x	96.02%	99.92%
798-116	Mycobacterium terrae (ATCC 15755)	0.26	1.98	>50x	45.05%	98.95%

HeiQ Viroblock FFP2 masks* show **significantly (>10 times) improved reduction** in virus infectivity.

Effective against key virus types: H1N1, H5N1, H7N9, Coronavirus (229E), and RSV.



* Treated with HeiQ Viroblock NPJ03 antiviral and antimicrobial treatment

Test report

Microbe Investigations AG

LS20-00643

Report date: April 24, 2020

Customer: ICM

Index

- Test overview and summary
- Application data
- Antimicrobial Testing management data
- Test costs information (Pro-Forma invoice)
- Annexes to the test report

SWISS TECH INSIDE

Microbe Investigations AG (MIS) is a spin-off company of ETH Zürich

MIS provides microbiological testing services primarily for industrial customers assessing the characteristics of developmental products. MIS also provides a depth of expertise in fundamental aspects of microbiology gained throughout many years of world-leading research. Target customers are primarily companies working with antimicrobial treatments on textiles, plastics, and coatings.

More information: www.microbe-investigations.com

spinoff ETH Zürich

Test report overview

General Info	Name	Contact	HeiQ KAM
Customer	ICM	-	C. Centonze
Distributor	-	-	-
Brand owner	-	-	-
Brand label	-	Application at	Client
Reason for testing	HeiQ: Quality Control	Application by	Not specified
HeiQ Effects	Others	Scale	Pilot plant

Test methods carried out in this report		
Effect / Property	Testing standard	Test parameter
Domestic laundering	ISO 6330:2013	4G: 40°C, gentle setting (wool silk synthetics)
Qualitative antibacterial pass/fail test	HeiQ test method L65	Qualitative (pass/fail) test for antimicrobial activity
Antibacterial "shake flask" test	ASTM E 2149-13a	Bacterium: Staphylococcus aureus (ATCC 6538P)

Test results: Good - Correct application // always obey application/recipe parameters

Test summary / comments:

- **Red knit fabric treated with combination of HeiQ Barrier ECO DRY and Pure SPQR shows good antimicrobial activity at HeiQ Yogurt test.**
  Initial sample shows no significant activity at ASTM E2149 test, most probably due to strong hydrophobic fabric surface. After 5 x 40 °C washes fabric shows good antimicrobial activity.
- **White knit fabric treated with HeiQ Viroblock NPJ03 shows good antimicrobial activity at HeiQ Yogurt test. Initial sample shows very good antimicrobial activity at ASTM E2149 test with no activity after 5 x 40 °C washes.**
- **White knit fabric treated with HeiQ Adaptive AC-06, as expected, shows no antimicrobial activity at HeiQ Yogurt test (sample develops odor and shows low pH).**

Goes together with LS20-00644

Microbe Investigations AG
Report: LS20-00643 Customer Order-ID: HeiQ Pure TF Date: April 24, 2020

Samples, finishing process and textile information

Sample number	Sample description
1	Red knit; ECO DRY + SPQR; hydrophob
2	White knit; Viroblock NPJ03
3	White knit; AC-06

Recipe	Sample number		
Product	1	2	3
Pure SPQR [---]	---		
Barrier ECO-DRY [---]	---		
Viroblock NPJ03 [---]		---	
Adaptive AC-06 [---]			---
Substrates	1	2	3
Polyester [%]	100	100	100
Textile information	1	2	3
Weight [g/m2]	145.0	145.0	145.0
Construction	CKN	CKN	CKN
Structure	-	-	-

Legend:

Construction process	*Textile structure*
CKN = Circular Knit	

Antimicrobial Testing

Recipe	Sample number					
Product	1		2		3	
Pure SPQR [—]	—					
Barrier ECO-DRY [—]	—					
Viroblock NPJ03 [—]			—			
Adaptive AC-06 [—]					—	
ISO 6330 parameters	1-1	1-2	2-1	2-2	3-1	3-2
Wash cycles 4G	0	5	0	5	0	5
Drying conditions		A		A		A

HeiQ Yogurt Bacteria Test

Sub-Samples	1-1	1-2	2-1	2-2	3-1	3-2
Odor	No	-	No	-	Yes	-
pH	7.00	-	6.90	-	6.60	-

ASTM E 2149: Staphylococcus aureus (ATCC 6538P)

Control	Result structure	Result structure	Result structure
PlateCFU	1	9	5
Plate dilution	5	4	5
Log cfu	$6.8*10^5$	$6.6*10^5$	$6.7*10^5$

Sub-Samples	1-1	1-2	2-1	2-2
Percent reduction Sample (staph) [%]	80.4810	99.6167	99.9183	37.3999
Log reduction Sample (staph)	0.7	2.4	3.1	0.2
Activity Sample (staph)	-	+	++	–

Microbe Investigations AG
Report: LS20-00643 Customer Order-ID: HeiQ Pure TF Date: April 24, 2020

Test costs information (Pro-Forma invoice)

Item	Price per item	No item	Costs
LIMS license + reporting	250	1	250
ISO 20743: Staphylococcus aureus (ATCC 6538P)	150	2	300
ASTM E2149: Staphylococcus aureus (ATCC 6538P)	200	2	400
HeiQ "Yogurt" antibacterial test	50	6	300
ISO 6330 4G (delicate)	8	8	64

Total value of this report: USD 1314.-

HeiQ Testing Services Report
LS20-00644

Report date: April 24, 2020

Customer: ICM

Index

- Test overview and summary
- Application data
- Water Repellency Testing management data
- Wearer Comfort Testing management data
- Test costs information (Pro-Forma invoice)
- Annexes to the test report

SWISS TECH INSIDE

Test report overview

General Info	Name	Contact	HeiQ KAM
Customer	ICM	-	C. Centonze
Distributor	-	-	-
Brand owner	-	-	-
Brand label	-	Application at	Client
Reason for testing	HeiQ: Quality Control	Application by	Not specified
HeiQ Effects	HeiQ Eco Dry / HeiQ Smart Temp	Scale	Pilot plant

Test methods carried out in this report		
Effect / Property	Testing standard	Test parameter
Domestic laundering	ISO 6330:2013	4G: 40°C, gentle setting (wool silk synthetics)
Absorbency of textiles: Drop test	AATCC TM 79-2014	Absorbency test with water droplets
Dynamic evaporation test	HeiQ test method L44	Dynamic evaporation test on thin textiles at 20 and 35°C
Conditioning of textiles	ISO139:2005	Conditioning of textiles before testing
Water repellency: Spray test	AATCC TM 22-2014	Spray test for water repellency
Water/alcohol resistance test	AATCC TM 193-2012	Test method repelling water/alcohol blends

Test results: Good effect level

Test summary / comments:

- Outer layer fabric (red knit) treated with HeiQ Barrier ECO DRY shows initially very good performance at Spray test with good performance after 5 x 40 °C washes.
- Inner layer fabric (white knit) treated with HeiQ Adaptive AC-06 shows very good performance at Evaporation test beyond 5 x 40 °C washes.

Goes together with LS20-00643

Samples, finishing process and textile information

Sample number	Sample description
1	Red knit; ECO DRY + SPQR; hydrophob
3	White knit; AC-06

Recipe	Sample number	
Product	1	3
Pure SPQR [---]	---	
Barrier ECO-DRY [---]	---	
Adaptive AC-06 [---]		---

Textile information	1	3
Weight [g/m2]	145.0	145.0
Construction	CKN	CKN
Structure	-	-

Legend:

Construction process	*Textile structure*
CKN = Circular Knit	

HeiQ Testing Services
Report: LS20-00644 Customer Order-ID: HeiQ Pure TF Date: April 24, 2020

Wearer Comfort Testing

Recipe	Sample number	
Product	3	
Adaptive AC-06 [---]	---	
ISO 6330 parameters	3-1	3-2
Wash cycles 4G	0	5
Drying conditions		A

AATCC 079: Water drop test

Sub-Samples	3-1	3-2
Test target drop test [s]	-	-
Average drop test [s]	0.0	0.0
Std Dev drop test [s]	0.0	0.0

HeiQ Dynamic Evaporation (standard)

Sub-Samples	3-1	3-2
Test target Normalized Performance [%]	-	-
Normalized performance metric (P) [%]	461.3	339.8
Evaporation difference T high [mg]	1253	1089
Evaporation difference T low [mg]	471	384

Water Repellency Testing

Recipe	Sample number	
Product	1	
Pure SPQR [—]	—	
Barrier ECO-DRY [—]	—	
ISO 6330 parameters	1-1	1-2
Wash cycles 4G	0	5
Drying conditions		A

ISO 139: Conditioning of textiles (water repellency)

Sub-Samples	1-1	1-2
Drying Temp. [°C]	-	60
Drying Time [min]	-	60
Conditioning temperature [°C]	ambient	ambient
Conditioning time [h]	-	6
Relative humidity Conditioning [%RH]	-	32

AATCC 022: Spray test for water repellency

Sub-Samples	1-1	1-2
Test target AATCC 22 scale	-	-
Spray rating AATCC 22 scale	100	90

AATCC 193 (Water-IPA /8)

Sub-Samples	1-1	1-2
Test target Water-IPA (/8)	-	-
Water/Alcohol rating	3.5	2.0

HeiQ Testing Services
Report: LS20-00644 Customer Order-ID: HeiQ Pure TF Date: April 24, 2020

Test costs information (Pro-Forma invoice)

Item	Price per item	No item	Costs
LIMS license + reporting	250	1	250
AATCC 79: Drop test (wetting)	10	4	40
HeiQ Dynamic evaporation test	60	4	240
AATCC 22: Spray test	20	2	40
AATCC 193: Water-Alcohol test (/8)	10	2	20
ISO 6330 4G (delicate)	8	8	64

Total value of this report: USD 654.-

Vietnam

Add value.
Inspire trust.

Applicant	:	**INTERCHINA MANAGEMENT (VIETNAM) CO., LTD.** Road No. 2, Binh Duong Industrial Zone, Di An Town, Binh Duong Province, Vietnam.
Attention	:	Mrs. Phuong
Mail box	:	purchasing@interchinamanagement.com
Test Sample	:	Received on 20/05/2020
Test Period	:	From 20/05/2020 to 29/05/2020
Sample Description	:	FACE MASK 3 LAYERS
Color	:	WHITE
Buyer	:	-
Product Type/ End Use	:	-
Fiber Content	:	100% POLYESTER
Style No.	:	-
No. of Sample	:	-
Supplier	:	-
Country of Origin	:	VIETNAM
Country of Destination	:	-
Season	:	-
Care Instructions	:	-

Note: the submitted samples are Not Drawn by the Laboratory

Note: (1) General Terms & Conditions as mentioned overleaf, (2) the test report shall not be reproduced except in full without the written approval of the laboratory. Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4

Disclaimer Measurement Uncertainty:
Unless otherwise agreed upon, Pass or Fail verdicts are given based on the measured values without any considerations of measurement uncertainties.
Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/ICE 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed a s PASS nor as FAIL

Laboratory:
TÜV SÜD Vietnam Co. Ltd.
Lot III-26, 19/5A Street, Industry Group III,
Tan Binh I.P, Tay Thanh Ward, Tan Phu District,
Ho Chi Minh City, Vietnam

Phone :084-28-62678506
Fax :084-28-62678511
E-Mail:softlines-laboratory@tuv-sud.vn
Url : www.tuv-sud.vn

Test Report No. VNT/T(A)/20/004432R1
Dated 01-06-2020

Vietnam

Result summary/ Conclusion:

No.	Test Parameters	Conclusion
1	Extractable Heavy Metal	Pass
2	pH Value	Pass
3	Formaldehyde	Refer to result
4	Odour	Refer to result
5	Water Repellency - Spray test	Refer to result
6	Antibacterial Activity	Pass

Note: The report no. VNT/T(A)/20/004432 dated 29/05/2020 has been superseded. The test report is revised in terms of to add bilingual Vietnamese-English in test result page.

TÜV SÜD Vietnam
TÜV SÜD Group

Checked by

Nguyen Thuy Long An
Report Reviewer

Authorized by

Nguyen Minh Truc
Head – Chemical Lab (Non – Food)

Laboratory:
TÜV SÜD Vietnam Co. Ltd.
Lot III-26, 19/5A Street, Industry Group III,
Tan Binh I.P, Tay Thanh Ward, Tan Phu District,
Ho Chi Minh City, Vietnam

Phone :084-28-62678506
Fax :084-28-62678511
E-Mail:softlines-laboratory@tuv-sud.vn
Url : www.tuv-sud.vn

1. Sample description

Description	Picture
Sample 1: FACE MASK 3 LAYERS **Color:** WHITE	

2. Material analysis (As Identified by Lab)

Component		Material	Color	Mat. No.
Sample 1	Outside	Knit fabric	White	001A
	Middle layer	Non-woven fabric	White	001B
	Skin-contact layer	Knit fabric	White	001C (same as 001A)

Test Report No. VNT/T(A)/20/004432R1
Dated 01-06-2020

3. Test Result/ *Kết quả thử nghiệm*

3.1 Extractable Heavy Metals/ *Hàm lượng kim loại nặng dễ tan*

Reference to ISO 16711-2: 2015 and analysis by ICP-MS

Theo ISO 16711-2: 2015, và phân tích trên thiết bị ICP-MS

Test parameter/ *Chỉ tiêu kiểm nghiệm*	Result [mg/kg] *Kết quả [mg/kg]*	Specification [mg/kg] *Tiêu chuẩn [mg/kg]*
	001A	
Antimony (Sb)	2.0	5.0
Cadmium (Cd)	N.D.	0.1
Arsenic (As)	N.D.	0.2
Lead (Pb)	N.D.	1.0
Mercury (Hg)	N.D.	0.02
Cobalt (Co)	N.D.	1.0
Copper (Cu)	N.D.	25.0
Nickel (Ni)	N.D.	1.0

Note:

1. N.D. = Not Detected (< Reporting Limit)
   Không phát hiện (nhỏ hơn giới hạn báo cáo)
2. Reporting limit for Hg = 0.02 mg/kg
   Giới hạn báo cáo đối với Hg = 0.02 mg/kg
   Reporting limit for Cd = 0.05 mg/kg
   Giới hạn báo cáo đối với Cd = 0.05 mg/kg
   Reporting limit for As, Pb = 0.1 mg/kg
   Giới hạn báo cáo đối với As, Pb = 0.1 mg/kg
   Reporting limit for Co, Ni = 0.5 mg/kg
   Giới hạn báo cáo đối với Co, Ni = 0.5 mg/kg
   Reporting limit for Sb = 1 mg/kg
   Giới hạn báo cáo đối với Sb = 1 mg/kg
   Reporting limit for Cu = 5 mg/kg
   Giới hạn báo cáo đối với Cu = 5 mg/kg

Laboratory:
TÜV SÜD Vietnam Co. Ltd.
Lot III-26, 19/5A Street, Industry Group III,
Tan Binh I.P, Tay Thanh Ward, Tan Phu District,
Ho Chi Minh City, Vietnam

Phone :084-28-62678506
Fax :084-28-62678511
E-Mail:softlines-laboratory@tuv-sud.vn
Url : www.tuv-sud.vn

3.2 pH Value/ *Giá trị pH*

Reference to ISO 3071: 2005

Theo ISO 3071: 2005

	Result *Kết quả*	Specification *Tiêu chuẩn*
	001A	
pH Value *Giá trị pH*	6.5	4.0 – 7.5

Note:

1. pH of the extracting solution: 6.15
   pH của dung dịch chiết: 6.15
2. Temperature of the extracting solution is 22°C
   Nhiệt độ dung dịch chiết: 22°C
3. Type of solution used: KCL
   Loại dung dịch chiết sử dụng: KCL

3.3 Formaldehyde/ *Hàm lượng Formaldehyde*

Reference to ISO 14184-1: 2011, analyzed by UV-VIS.

Theo ISO 14184-1: 2011, phân tích trên thiết bị đo quang phổ UV-VIS

Test parameter *Chỉ tiêu thử nghiệm*	CAS no. *Số Cas.*	Result [mg/kg] *Kết quả [mg/kg]*	Specification [mg/kg] *Tiêu chuẩn [mg/kg]*
		001A	
Formaldehyde *Hàm lượng Formaldehyde*	50-00-0	N.D.	-

Note:

1. N.D. = Not Detected (< Reporting Limit)
   Không phát hiện (nhỏ hơn giới hạn báo cáo)
2. Reporting limit = 10 mg/kg
   Giới hạn báo cáo = 10 mg/kg

3.4 Odour/ *Xác định mùi*

SNV 195651,

Phương pháp thử nghiệm SNV 195651

	Sample 1	Specification *Tiêu chuẩn*
Odour *Xác định mùi*	No Odour *Không mùi*	-

Test Report No. VNT/T(A)/20/004432R1
Dated 01-06-2020

Vietnam

3.5 Water Repellency - Spray test

Khả Năng Chống Thấm Ướt Bề Mặt (Phép Thử Phun Tia)

ISO 4920,

Phương pháp thử nghiệm ISO 4920

Testing condition: Water temperature 27°C, spray time 28 seconds

Điều kiện thử nghiệm: Nhiệt độ nước 27°C, thời gian phun nước 28 giây

Test parameter *Chỉ tiêu thử nghiệm*	Rating *Cấp phun tia*	Specification *Tiêu chuẩn*
	001A	
Water Repellency *Khả Năng Chống Thấm Ướt Bề Mặt*	4-5	-

Note: The spray rating scale is defined as follows:/ Cấp phun tia chuẩn:

0 - Complete wetting of the entire face of the specimen;
Ướt toàn bộ bề mặt mẫu;

1 - Complete wetting of the entire specimen face beyond the spray points;
Ướt toàn bộ bề mặt mẫu xung quanh điểm phun;

2 - Partial wetting of the specimen face beyond the spray points;
Ướt một nửa bề mặt mẫu. Thường xuất hiện các vùng nhỏ bị thấm ướt kết hợp với nhau;

3 - Wetting of specimen face at spray points;
Chỉ ướt bề mặt mẫu tại các điểm phun;

4 - Slight random sticking or wetting of the specimen face;
Không ướt nhưng có các giọt nước nhỏ dính trên bề mặt mẫu;

5 - No sticking or wetting of the specimen face.
Không ướt và không có các giọt nước nhỏ dính trên bề mặt mẫu;

Laboratory:
TÜV SÜD Vietnam Co. Ltd.
Lot III-26, 19/5A Street, Industry Group III,
Tan Binh I.P, Tay Thanh Ward, Tan Phu District,
Ho Chi Minh City, Vietnam

Phone :084-28-62678506
Fax :084-28-62678511
E-Mail:softlines-laboratory@tuv-sud.vn
Url : www.tuv-sud.vn

3.6 Antibacterial Activity/ *Hoạt độ kháng khuẩn*

ISO 20743: 2013

Phương pháp thử nghiệm ISO 20743: 2013

Test on Middle layer/ *Test lớp giữa*

	Result *Kết quả*		Specification *Tiêu chuẩn*
	001B		
	S. aureus (ATCC 6538)	K. pneumonia (ATCC 4352)	
Antibacterial Activity (A) *Hoạt độ kháng khuẩn (A)*	4.22	4.61	> 2
Reduction, % *% Suy giảm*	99.80%	99.98%	> 99%

Results: Staphylococcus aureus: Antibacterial Activity observed in the tested specimen

Kết quả: Staphylococcus aureus: Có phát hiện khả năng kháng khuẩn Staphylococcus aureus trên mẫu

Klebsiella pneumonia: Antibacterial Activity observed in the tested specimen

Klebsiella pneumonia: Có phát hiện khả năng kháng khuẩn Klebsiella pneumonia trên mẫu

Note: % denotes Percentage/ *Phần trăm*

-End of Test Report-

Test Report No. VNT/T(A)/20/004432R1
Dated 01-06-2020

Vietnam

General Terms and Conditions of Business

of TÜV SÜD Vietnam Co., Ltd (hereinafter referred to as "TUV SUD")

1. General

1.1 These General Terms and Conditions of Business are applicable to all Product Testing / Inspection / Certification Services and other services provided by TÜV SÜD ("the Services").

1.2 The client shall accept TÜV SÜD's General Terms and Conditions of Business and the prices valid at the time of order placement. Deviating terms and conditions of business of individual clients cannot be recognized as a matter of principle.

1.3 Ancillary agreements, promises and other statements by TÜV SÜD employees or officially authorized experts called in by TÜV SÜD shall only be considered binding if expressly con-firmed by TÜV SÜD and in writing. This shall also apply to any amendments to these terms and conditions.

2. Contractual Performance and Clients' Responsibilities

2.1 TÜV SÜD shall perform the Services in accordance to TÜV SÜD customary manner unless otherwise agreed in writing. Unless otherwise explicitly agreed in writing or regulated by the law and regulations, no responsibility shall be assumed for the correctness of the safety programs and safety regulation on which the tests and inspections have been based.

2.2 TÜV SÜD shall be entitled to make use of sub-contractors in the implementation of the order only if this has been explicitly agreed upon in writing.

2.3 The scope of the Services to be performed by TÜV SÜD shall be defined in writing on placement of order. If any modification or extension of the scope prove necessary within the context of due performance of the contract, they shall be additionally agreed upon in advance and in writing.

2.4 The client shall supply the necessary accessories, information and / or documents, for the Services including any foreign test reports, company test reports, product specifications, catalogues and instruction manuals. Until all necessary accessories, information or documents are supplied, TÜV SÜD will not commence the Services.

2.5 TÜV SÜD, at its sole discretion, reserves the right not to undertake the Services and terminate the agreement for the same in the event the client fails to comply with the terms and conditions set out herein.

3. Delay or Failure of Performance

3.1 The deadlines for contractual performance quoted by TÜV SÜD shall be binding only if this has been explicitly agreed upon in writing or regulated by the law and regulations.

3.2 TÜV SÜD shall not be liable for any delay or failure in respect of its contractual performance arising from any cause outside its control unless regulated by the law and regulations.

3.3 In the event that TÜV SÜD's contractual performance is delayed due to any cause outside its control, TÜV SÜD shall have the option at its sole discretion to either (i) extend the period for performance in accordance to the period of delay or (ii) terminate the agreement for the Services.

4. Warranty

4.1 Warranty by TÜV SÜD only covers contractual services with which it has been explicitly commissioned as per Section 2.1. Warranty regarding the proper condition and overall functioning of the plants to which the inspected or tested parts belong shall therefore be excluded. In particular, TÜV SÜD shall not assume any responsibility for the design, materials and construction of the examined plants unless these issues have been explicitly included in the contract. Even if the latter is the case, the warranty and the legal responsibility of the manufacturer shall be neither restricted nor assumed or regulated by the law and regulations.

4.2 Any warranty given by TÜV SÜD shall initially be restricted to supplementary performance to be completed within a reasonable time limit informed in writing to and agreed by the customer or regulated by the law and regulations. Should such supplementary performance fail, i.e. be impossible or unacceptable for the customer or be unjustifiably refused or delayed by TÜV SÜD, the customer shall be entitled, at its discretion, either to a reduction of the price or rescission of the contract.

4.3 TÜV SÜD warrants that it will exercise reasonable care and diligence in performing the service herein. Save as provided herein, all other warranties by TÜV SÜD, whether expressed or implied, are hereby expressly excluded.

4.4 The client warrants that all information and/or documents supplied to TÜV SÜD are accurate and correct in all aspects and shall indemnify TÜV SÜD as the recent law and regulations for all loss and damages arising from the Services herein caused by incorrect information and/or documents supplied by the client.

5. Liability

5.1 Unless regulated by the law and regulations, TÜV SÜD shall only be liable for damages – regardless of their legal basis – if TÜV SÜD has caused any damage as a result of an intentional or grossly negligent act or if TÜV SÜD has negligently breached a substantial contractual obligation ("material obligation"). In the event that TÜV SÜD is in breach of any substantial contractual obligations, TÜV SÜD shall only be liable for the damage related to and typically foreseeable under the particular contract at the time of entering into the contract.

5.2 Whilst all reasonable care will be taken where the product / equipment is in TÜV SÜD's custody, unless otherwise stipulated in the contract / agreement or regulated by the law and regulations, TÜV SÜD shall not under any circumstances be responsible for any loss or damage to the product / equipment during transit or while in the custody of TÜV SÜD, unless by fraud or negligence of TÜV SUD. The client shall arrange for all necessary insurance against accidental loss or damage to the product / equipment, either in transit or at TÜV SÜD premises.

5.3 Unless there is a written request made for the return of the product / equipment at the time when they are delivered to TÜV SÜD for testing or the agreement for testing expressly provides for the return of the product / equipment, all product / equipment provided to TÜV SÜD for testing will be disposed after 1 month from the date of testing and the client agrees this principal.

5.4 Unless regulated by the law and regulations, TÜV SÜD shall not be liable for any damages caused as a result of a negligent breach of a non-substantial contractual obligation.

5.5 Unless regulated by the law and regulations, "Substantial contractual obligations" are those obligations that protect the customer's legal interests deemed to be substantial to the contract, which the contract, based on its content and purpose, must specifically grant to the customer; further, such contractual obligations are substantial which are deemed to be prerequisites for proper performance of a contract and upon the observance of which the customer has generally relied and may rely.

5.6 Unless regulated by the law and regulations, TÜV SÜD shall not be liable for any incidental, indirect, special or consequential loss or damage whatsoever, including, but not limited to, loss of revenue, profits, contracts, business or anticipated savings, or loss of goodwill or reputation, whether foreseeable or not and whether arising from any act or omission on the part of TÜV SÜD in the provision of the Services.

5.7 Any person making claims under this contract may inform TÜV SÜD about any potential damage for which TÜV SÜD could be liable.

5.8 If claims for damages against TÜV SÜD are excluded or limited, this shall extend to any personal liability of any statutory organs, experts, miscellaneous employees, vicarious agents or any other auxiliary personnel of TÜV SÜD for the said / same claims on the same legal relation.

5.9 TÜV SÜD total liability to the client under or in connection with the agreement for Services and/or in tort (including negligence) in any event (other than death or personal injury resulting from TÜV SÜD 's negligence) shall not exceed the amount of fees paid by the client to TÜV SÜD in respect of the Services.

6. Terms of Payment, Prices

6.1 Unless a fixed price or other calculation basis has been explicitly agreed upon, services shall be billed in accordance with the prices of TÜV SÜD valid at the time of contract conclusion. In the absence of a valid schedule of prices, contractual provisions must be agreed on a case-by-case basis. If there is a period of more than 4 months between placement of the order and completion of the order by TÜV SÜD and there has been a price increase in the meantime, then the modified price shall be used as the basis of calculation as of the 5th month.

6.2 Reasonable advance payments may be requested and/or partial invoices covering services already rendered may be made out. Partial invoices need not be designated as such. The receipt of an invoice does not mean that the order has been billed completely by TÜV SÜD.

6.3 Companies who are not given any credit terms by TÜV SÜD have to pay in advance. For companies who are given credit terms by TÜV SÜD, an invoice will be issued when a job is completed and the fees shall be remitted to TÜV SÜD within thirty days of presentation of the invoice.

6.4 The client agrees to indemnify and pay TÜV SÜD for all taxes (Value Added Tax - VAT), levies and duties including, but not limited to, goods and services tax or withholding tax which TÜV SÜD may be liable to pay as a result of providing the services to the client herein.

6.5 Any objections to invoices must be made in writing to TÜV SÜD within a 14-day preclusion period after receipt of invoice, with reasons stated.

6.6 When a client decides to cancel the order for the Services (other than audits), he may do so by giving a notice in writing to TÜV SÜD. In case TÜV SÜD receives the cancellation request within three working days after confirmation of the order, The client will be charged for all Services performed prior to such cancellation and in vice versa, the client agrees to pay the full fee for the Services as the contract.

6.7 For audits, any request for cancellation or postponement of the audit must be given within six weeks in advance of the scheduled audit date, the client will be charged for all Services performed prior to such cancellation or postponement and in vice versa, the client agrees to pay the full fee for the audit as the contract.

7. Secrecy, Copyright, Data Protection

7.1 TÜV SÜD shall have the right to copy and file any written documents submitted for perusal which are important for performance of the order.

7.2 In as far as expert opinions, audit reports and the like that are protected by copyright are prepared within the scope of contractual performance, TÜV SÜD shall grant the customer a simple, non-transferable right of use, if this is required by the underlying purpose of the contract. This grant of copyright explicitly shall not include the transfer of any other rights, the customer shall, in particular, not be entitled to change (process) or use expert opinions, audit reports, test results, calculations and the like outside its business.

7.3 TÜV SÜD, its employees, and the expert engineers called in by TÜV SÜD shall not, without authorization, disclose or use any confidential information belonging to the client which they become cognizant during their activities provided that this clause shall not apply to information that is already known to TÜV SÜD prior to such disclosure, or passes into the public domain otherwise than as a result of a breach of this confidentiality obligation on the part of TÜV SÜD, or was received from a third party who is not under any confidentiality obligations or who did not acquire the information in confidence, or was independently conceived or developed by TÜV SÜD without reference to the disclosed confidential information.

8. Lien

In addition to any right of lien to which TÜV SÜD may be entitled by law, TÜV SÜD shall be entitled to a general lien on all product / equipment submitted for the Services as the agreement, contract with the client.

9. Indemnity

The client shall indemnify TÜV SÜD fully in accordance with the law and regulations against all loss or damages suffered and cost and expenses incurred by TÜV SÜD and all claims by any third parties as a result of provision of the Services (including but not limited to the improper use of the test reports, supply of inaccurate information and/or documents to TÜV SÜD or any claim by third party for infringement or intellectual property rights and/or for discovery of information and/or for delivery of documents or products / equipment) unless the same is caused by the act or neglect of TÜV SÜD.

10. Court Appearance

In the event any of the employees of TÜV SÜD is requested by the client or summoned by the court upon application by the client or any other parties for his attendance in court as an expert witness on the subject of the Services provided, the Client agrees and shall pay TÜV SÜD for such attendance in court based on TÜV SÜD's prevailing rates, agreed by the written confirmation of the client, for court attendance. TÜV SÜD may at its sole discretion revise its rates for court attendance from time to time.

11. Governing Law

11.1 The agreement for the Services shall be governed by and construed in accordance with the laws of Vietnam.

11.2 TÜV SÜD and the client agree to submit to the jurisdiction of the Vietnam Courts.

12. Validity of Agreement

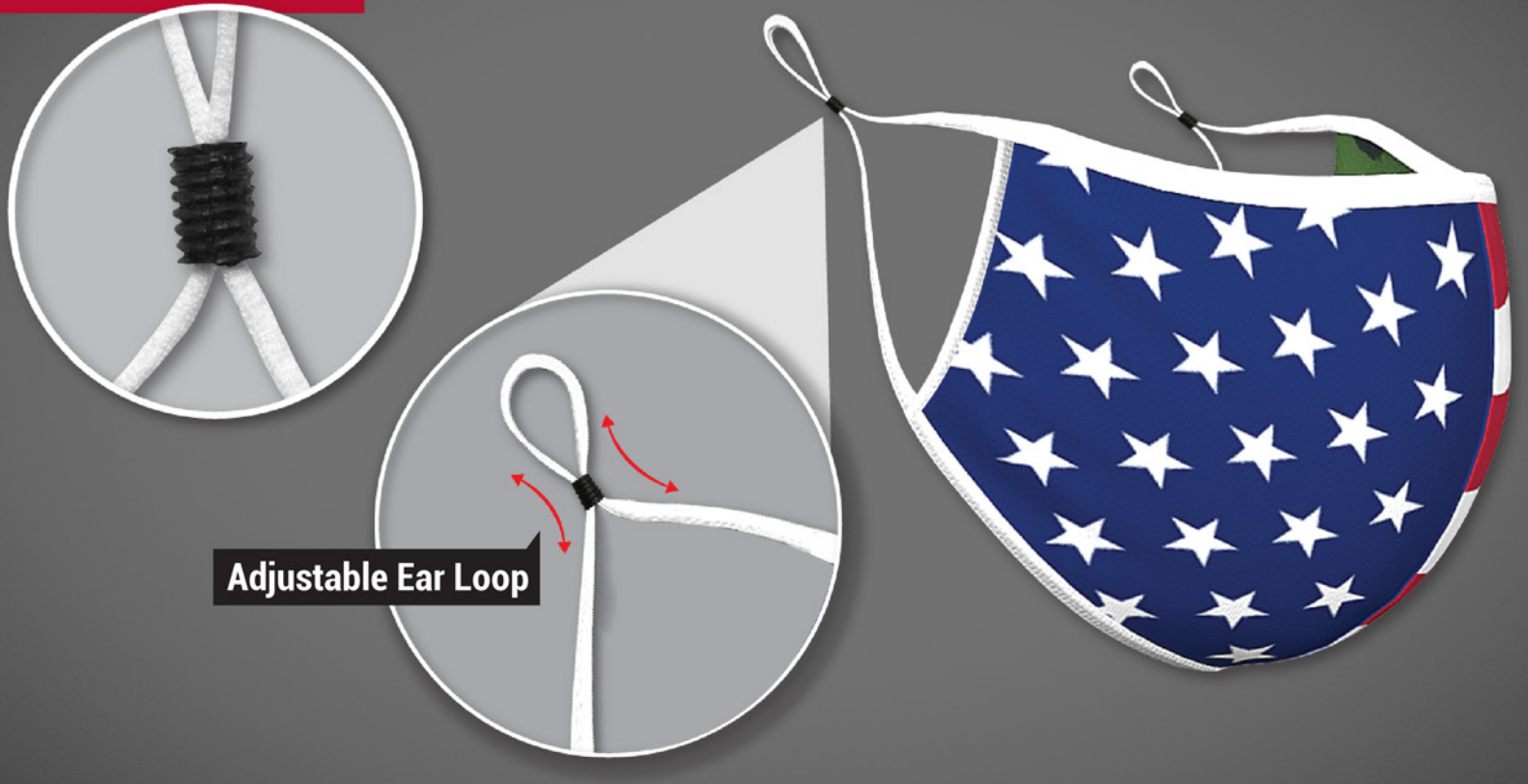
12. If any terms and conditions of this document are invalid or unenforceable for any reason, such invalidity or unenforceability shall not affect the validity or enforceability of the remainder of the terms and conditions.

effective: 21 January 2016 (TÜV SÜD Vietnam Co., Ltd.)
Version 7

Laboratory:
TÜV SÜD Vietnam Co. Ltd.
Lot III-26, 19/5A Street, Industry Group III,
Tan Binh I.P, Tay Thanh Ward, Tan Phu District,
Ho Chi Minh City, Vietnam

Phone :084-28-62678506
Fax :084-28-62678511
E-Mail:softlines-laboratory@tuv-sud.vn
Url : www.tuv-sud.vn

ACCESSORIES



HOW TO ORDER

Email design and hi-res supporting images to gm@icmfactorydirect.com
Our customer service will guide you through the order process.

Interchina Management Vietnam Co. Ltd
Binh Duong Industrial Zone, Street 2
Di An, Binh Duong Province, Viet Nam

Vietnam
Tel.: 84-274-3792334
Fax: 84-274-3791730

E-mail: gm@icmfactorydirect.com
Website: https://www.icmfactorydirect.com/

Disclaimer: All logos, and their designs, used on our website are to show our product styles and capabilities only. They are not meant to be advertisements of any brands nor are these items for sale to anyone other than the parties authorized by the owner of such logos & designs.