# HYGISUN

REF HS0501A

## FFP2 Maske / FFP2 Mask

Persönliche Schutzmaske

**Personal Protective Mask** 



CE2797

EN 149: 2001+A1: 2009

**CARTON DIMENSION** 

(FFP2 - White - 20er)

HYCISUN®

1 PC/OPP

20 PCS/box

1000 PCS/carton

20000 PCS/pallet

EAN: 4260676530164

**C**€2797



## **FFP2-MASKE** REF HSO501A Schwarz/Black PERSÖNLICHE SCHUTZMASKE EN149:2001+A1:2009 Faltbare Partikel -Atemschutzmaske Hohe Filtrationseffizienz Geringer Atemwiderstand Bequem zu tragen 20Stück @ Einmalgebrauch C€ 2797 20 Stück & Einmalgebrauch CE 2797

## **Bedienungsanleitung Fitting instructions**



Nehmen Sie die Maske an den Ohrschlaufen in die Hand und drücken Sie diese mit dem Bügel auf den Nasentlicken gagen Ihr Gesicht, während Sie die Ohrschlaufen hinter Ihren Ohren positionieren.

Take the mask by the ear loops in your hand and press it equinst your face with the strap on the bridge of your nose while you position the ear loops behind your ears.



Formen Sie den Bügel mit beiden Händen in die Form Ihrer Nase.

Shape the nose dip into the shape of your nose with both hands.



Testen Sie die Passform. Nehmen Sie beide Hände über die Alemschutzmaske und atmen Sie kräftig aus. Wenn Luft um Ihre Nose strömt, ziehen Sie den Bügel fester.

Text the correct fit. Put both hands over the respirator and exhala forcefully. When oir flows out around your nose, press the nose diplighter.

### HINWEIS ZUR VERWENDUNG: / NOTICE FOR USE-

Bitte verwenden Sie dieses Produkt nicht in der Nöhe einer Feuerquelle.
Please do not use filis product neur fire sources.

- Da es sich bei diesem Produkt um eine Einwegmaske handelt, kann es nicht durch Waschen wiederverwendet werden.

As this product is a disposable mask, it cannot be reused through washing.

-You hohen Temperaturen und Luffleuchtigkeit fernhalten und an einem sauberen Ortaufbewahren.

Keep it mway from high temperature and humidity and keep it in clean place.

Personlishe Schutzmaske, Night medizinsch.

personal protective mask, non-medical.

Verwenden Sie einzeln verpockte Produkte, sobald diese ausgepackt sind.
Use individually packaged products as soon as they are unpacked.

Verweiter in gestellt film meditiest. School in en entgebil en Fermen in gestellt meditiest.

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### **FFP2 Maske** EN149:2001+A1:2009

WICHTIG: Die Atemschutzmaske FFP2 biefet Schutz vor Pollen, Viren und Industriestaub

IMPORTANT: The respiratory protection mask FFP2 is designed to protect from pollen, wros and industrial dust.

### **ANWENDUNG: / APPLICATION:**

Die Maske wird in der Schutzindustrie bei Staubentwicklung, während des Baus zur Staubverhütung, beim Metallguss, Steinabbau, in der Elektronik, Pharmazie, der physikalischen Verarbeitung und beim Schleifen ver wendet und bietet einen guten Schutz gegen Sandstieme, Durst und PMZ.5. Kann werksam vor Pollenallergien, Veruschen tragung usw. schützen.

It is used in the industry for dust generation during construction, dust prevention, metal costing, stone mining, electronics, pharmocouncal, physical processing and grinding. It also offers good protection against sendstorms, haze and PM2.5. Comeffectively protect pollen allergy, virus transmission, etc.

### **VERFALLSDATUM: / EXPIRATION DATE:**

Lagertemperatur: -20~35°C, Lagerfeuchtigkeit ≤80%, Haltbarkeit: 2 Jahre in trockenen Innenröumen.

The storage temperature is -20-38°C, the storage is moderate <801/s. The validity period is 2 year in the dry indoor environment.



Hunan Dreaming Cloud E-Commerce CO., Ltd Block 1, Smart Tech Park, 57# Huangxing Avenue, Changsha Economic and Technological Development Zone, Changsha, Hunan, China



Sunbeam International GmbH Schumonstr. 12, 52146 Würselen, Germany











### ANLEITUNG

Norm:

Dieses Produkt entspricht der Norm EN149:2001 + A1:2009 für Atemschutzgeräte - Halbmaske zur Filterung zum Schutz vor Partikeln. Diese Filtermasken sind gemäß der Verordnung der Europäischen Kommission (EU) 2016/425 über PSA als Persönliche Schutzausrüstung in der Kategorie III eingestuft und entsprechend gekennzeichnet

### Bestimmungsgemäße Verwendung:

Die Staubmacke ist als Kategorie FFP 2 eingestuft. Sie schützt vor Partikeln. Nebel. Rauch und Aerosolen auf Ölbasis. Die Verpackung schützt die Maske vor der Verwendung, Schützt wirksam vor Pollen. Die Maske kann nur zum persönlichen Schutz verwendet werden, nicht für medizinische Zwecke. Maske nicht bei der Brandbekämpfung und in explosionsgefährdeten Bereichen nutzen.

### Dichtsitztest

1. Bedecken Sie die Maske vorsichtig mit beiden Händen ohne den Dichtsitz zu verändern.

2.stark Ausatmen:

3.Bei einer Leckage im Nasenbereich, den Nasenbügel neu anpassen. Dichtsitzprüfung wiederholen.

4.Bei einer Leckage am Maskenrand, den Sitz der Bänder überprüfen und anpassen. Dichtsitzprüfung

Wenn Sie KEINEN richtigen Dichtsitz erreichen können, betreten Sie NICHT den Gefahrenbereich. Informieren Sie ihren Vorgesetzten.

### Warnungen und Einschränkungen:

Vergewissern Sie sich immer, dass das Produkt:

Geeignet ist für die Anwendung;

Korrekt angelegt ist;

Während des gesamten Aufenthalts im Gefahrenbereich getragen wird:

Ersetzt wird, wenn notwendig.

Richtige Auswahl, Schulung, Gebrauch und gegebenenfalls Reinigung sind die Voraussetzungen dafür,

dass das Produkt den Anwender vor bestimmten luftgetragenen Gefahrstoffen schützt. Die Nichtbefolgung aller Anweisungen zur Anwendung der Maske und/oder die Fehlbenutzung während des Aufenthaltes im Gefahrenbereich kann die Gesundheit des Anwenders beeinträchtigen

und zu schweren Erkrankungen oder Dauerschäden führen. Beachten Sie bei der Auswahl und richtigen Anwendung nationale Bestimmungen und alle mitgeliefer

ten Informationen Vor Gebrauch muss der Anwender, in Übereinstimmung mit den nationalen Regeln, in der funktions

gerechten Handhabung geschult sein. Dieses Produkt schützt nicht vor Gasen und Dämpfen.

Verwenden Sie die Maske nicht in Umgebungen mit weniger als 19.5% Sauerstoff

Verwenden Sie die Masken nicht in Umgebungen mit unbekannten Gefahrstoffen oder Konzentra tionen, die die zulässigen Höchstwerte übersteigen.

Verwenden Sie die Maske nicht, wenn Gesichtshaare im Bereich des Dichtrandes einen korrekten Dichtsitz der Maske verhindern.

Verlassen Sie sofort den belasteten Bereich, wenn:

a) Das Atmen schwer fällt.

b) Schwindel oder andere Beschwerden auftreten.

c) Die Maske beschädigt wird.

d) Geruch oder Geschmack des Gefahrstoffs oder eine Reizung auftritt.

Entsorgen und ersetzen Sie die Maske, wenn sie beschädigt ist, der Atemwiederstand stark erhöht ist oder am Ende einer Schicht.

Die Maske darf niemals verändert oder repariert werden.

Die Maske ist zum einmaligen Gebrauch vorgesehen und ist danach entsprechend der nationalen Vorgaben zu entsorgen.

### Transport und Lagerung:

Die Partikelmasken haben eine Lagerdauer von 2 Jahren. Das Ende der Lagerdauer ist auf der Verpackung angegeben. Vergewissern Sie sich vor Gebrauch immer, dass das Produkt noch innerhalb der Lagerdauer liegt. Das Produkt sollte sauber, trocken und im Temperaturbereich von - 20°C bis +38°C bei einer maximalen rel. Luftfeuchtigkeit von 80% gelagert werden. Für Lagerung

und Transport die Originalverpackung verwenden. Nicht direkter Sonnenstrahlung aussetzen.







QUALIFIED CERTIFICATE

产品名称 FFP2个人防护口罩(不作为医疗防护使用)
Product Name FFP2 personal protective mask.(For personal protective only)

执行标准 EN149:2001 + A1:2009

Standard EN149; 2001 + A1: 2009 产品规格 16×10.5厘米

Product Size 16x10.5CM

材质 30%熔喷布+70%无纺布

Material 30% MELT-BUSH T-ABRICATO THE WOVEN FABRIC

QUALITY PASSED

质检员 苍检验 合格

Checker

生产日期 Date QC:01

生产批号 PD: SEE ON PACKAGE
LOT: SEE ON PACKAGE

使用周期 一次性

Usege court Single use 有效期 2年

Period of validity 2 years

Manufacturer

生产企业 湖南云想生活电子商务有限公司

生产地址 长沙经济技术开发区黄兴大道南段 57号星为创芯园1栋501号

did/less Block 1, Smart Tech Park, 178 Huangong Averue Changpha

Economic and Technological Development Zone, Changoha, Human, China

Hunan Dreaming Cloud E-Commerce CO., Ltd.

储存条件:本品应储存温度-20~38°C,储存湿度≤80% 避光干燥的室内环境下,通风良好,无腐蚀性气体的清洁 环境内,如贮存不当导致发霉变质禁用。

STORAGE CONDITIONS AND MITH COST the storage temperature is -20-39°C, and are replace trumidely in cut more train 50°s, well-writated and clean environment without consistings, please as not use if the product gets misselved or development due to improp storage.

本产品为个人防护用品,不作为医疗防护使用

THIS PRODUCT IS LINDER PERSONAL PROTECTIVE EQUIPMENT DIRECTIVE.

PREFER PERSONAL PROTECTIVE ONLY.

MADE IN CHINA

MADE BY CHINA

PERSONAL PROPERTY.





Block 1, Smart Tech Park, 57# Huangxing Avenue, Changsha Economic and Technological Development Zone,Changsha, Hunan, China

### **EU-KONFORMITÄTSERKLÄRUNG**

Diese Konformitätserklärung wurde unter der alleinigen Verantwortung des Herstellers Hunan Dreaming Cloud E-Commerce CO., Ltd.

Block 1, Smart Tech Park, 57 # Huangxing Avenue, Changsha Economic and Technological Development Zone, Changsha, Hunan, China

ausgestellt.

EG-Vertreter: Sunbeam International GmbH, Schumanstr.12, Würselen 52146 Deutschland

Hiermit wird erklärt, dass die folgende persönliche Schutzausrüstung (PSA)

Produktbeschreibung: HYGISUN Partikelfilter-Halbmaske

Produktmodell (e): HS0501A FFP2 NR ohne Ventil

den Bestimmungen der folgenden europäischen Verordnung entspricht:

### **PSA-Verordnung (Persönliche Schutzausrüstung)**

Das Modell entspricht den Bestimmungen der Verordnung (EU) 2016/425, PSA zur Verwendung durch Angehörige der Gesundheitsberufe gemäß der Empfehlung der Kommission 2020/403 und der Nationalen Norm zur Umsetzung der harmonisierten europäischen Normnummer (n):

EN 149: 2001 + A1: 2009

und ist identisch mit der PSA, die Gegenstand einer EU-Typprüfung ist (Modul B der Verordnung (EU) 2016/425), auf die auf der Zertifikatsnummer verwiesen wird:

Zertifikat Nr.: CE 730303 (Ausstellungsdatum: 03/07/2020)

herausgegeben von BSI Group Niederlande BV

John M. Keynesplein 9, 1066 EP, Amsterdam, Niederlande (Notified Body No. 2797)

und entspricht den Verfahren in Modul C2 der Verordnung (EU) 2016/425 unter der Überwachung der BSI Group The Netherlands BV (Notified Body Nr. 2797), auf die auf dem vom BSI ausgestelltem Zertifikat CE 730304 (Ausstellungsdatum: 03/07/2020)

verwiesen wird.

Changsha, China, 07.04.202

Ouyang Zhouya

(Nachname Name)

Qualitätsmanager

Hunan Dreaming Cloud E-Commerce CO., Ltd.



Block 1, Smart Tech Park, 57# Huangxing Avenue, Changsha Economic and Technological Development Zone, Changsha, Hunan, China

### **EU DECLARATION OF CONFORMITY**

This Declaration of Conformity, issued under the sole responsibility of the manufacturer

**Hunan Dreaming Cloud E-Commerce CO., Ltd.** 

Block 1, Smart Tech Park, 57# Huangxing Avenue, Changsha Economic and Technological Development Zone, Changsha, Hunan, China

EC Representative: Sunbeam International GmbH, Schumanstr.12, Würselen 52146 Germany:

hereby declaring the following Personal Protective Equipment (PPE)

**Product Description: HYGISUN Particulate Filtering Half Mask** 

Product Model/s: HS0501A FFP2 NR without valve

is/are in conformity with the provisions of the following European Regulation

### **PPE (Personal Protective Equipment) Regulation**

The model is/are in conformity with the provisions of Regulation (EU) 2016/425, PPE for use by healthcare professionals as per Commission recommendation 2020/403, and with the National Standard transposing the harmonised European Standard Number(s):

### EN 149:2001+A1:2009

and is/are identical to the PPE which is/are the subject of EU type-examination (Module B of Regulation (EU) 2016/425) referenced on the certificate number:

Certificate No.: CE 730303 (Issue Date: 03/07/2020)

issued by

BSI Group The Netherlands B.V.

John M. Keynesplein 9, 1066 EP, Amsterdam, Netherlands (Notified Body No. 2797)

and is/are in conformance with procedures set out in Module C2 of Regulation (EU) 2016/425 under the surveillance of BSI Group The Netherlands B.V.(Notified Body No. 2797), referenced on BSI issued Certificate CE 730304 (Issue Date: 03/07/2020).

Changsha, China, 04/07/2020

(Surname, Name)

**Quality Manager** 

Hunan Dreaming Cloud E-Commerce CO., Ltd.





Test Report No.: 244275321a 001 Page 1 of 7

Client: SUNBEAM INTERNATIONAL GMBH

Contact Information: Schumanstr. 12, 52146 Würselen, Germany

Contact Person: Edward Zhao

### Sample Description As Declared :

No. Of Sample 80pcs

Product Description Personal Protective Respirator Mask

Colour White Style No. HS0501A

Manufacture Hunan Dreaming Cloud E-Commerce Co., Ltd.

Test Type Partial test

Product Type Single shift use only

Claimed Classification FFP2

Sample obtaining method: Sending by customer

Condition at delivery: Test item complete and undamaged.

Sample Receiving date: 2020-10-28 & 2020-12-01

**Delivery condition:** Apparent good, Samples tested as received

**Test Period:** 2020-10-28 to 2020-11-13 & 2020-12-01 to 2020-12-07

Place of testing: Textiles laboratory Shanghai

Test Specification: Test Result

EN 149:2001 + A1:2009 Respiratory Protective Devices – Filtering Half Masks *Please refer to next page* to Protect against particles- Requirements, testing, marking

For and on behalf of

TÜV Rheinland (Shanghai) Co., Ltd.

2020-12-07 Candy Jiang/ Section Manager

Croy Jiang

Date Name/Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed. This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products. "Decision Rule" document announced in our website (https://www.tuv.com/landingpage/en/qm-gcn/) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report



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### Summary of test results

Clause	Item	M001
7.3	Visual inspection	N/R
7.4	Package	M
7.5	Material	M
7.6	Cleaning and disinfection	N/A
7.7	Practical performance	M
7.8	Finish of parts	M
7.9.1	Leakage	M
7.9.2	Penetration of filter material	M
7.10	Compatibility with skin	M
7.11	Flammability	M
7.12	Carbon dioxide content of the inhalation air	M
7.13	Head harness	M
7.14	Field of vision	M
7.15	Exhalation valve(s)	N/A
7.16	Breathing Resistance	M
7.17	Clogging	N/A
7.18	Demountable parts	M
9	Marking	N/R
10	Information to be supplied by the manufacturer	N/R

Note: M = Meet Performance Standard F = Below Performance Standard

### **Material list**

Material No.	Material	Color/Pattern	Location		
M001	Whole Product	White	Personal Protective Respirator Mask		



### 1. Visual inspection

Test method : EN 149:2001+A1:2009 Clause 8.2

Clause	Item	M001
7.3	The visual inspection shall also include the marking and the information supplied by the manufacturer.	N/R
7.4	Particle filtering half masks shall be offered for sale packaged in such a way that they are protected against mechanical damage and contamination before use.	Pass
	Materials used shall be suitable to withstand handling and wear over the period for which the particle filtering half mask is designed to be used.	Pass
7.5	After undergoing the conditioning described in 8.3.1 none of the particle filtering half masks shall have suffered mechanical failure of the face piece or straps.	Pass
	When conditioned in accordance with 8.3.1 and 8.3.2 the particle filtering half mask shall not collapse.	Pass
	Any material from the filter media released by the air flow through the filter shall not constitute a hazard or nuisance for the wearer.	Pass
7.8	Parts of the device likely to come into contact with the wearer shall have no sharp edges or burrs	Pass
7.18	All demountable parts (if fitted) shall be readily connected and secured, where possible by hand.	Pass

Remark:

N/A: Due to no relevent information/material

N/R: Due to not request

### 2. Practical performance

Test method : EN 149:2001+A1:2009 Clause 8.4 & 8.5

Clause	Item	M001
7.7	Wearing	Pass
7.7	Walking test	Pass
7.7	Work simulation test	Pass
7.10	Materials that may come into contact with the wearer's skin shall not be known to be likely to cause irritation or any other adverse effect to health	Pass
7.13	The head harness shall be designed so that the particle filtering half mask can be donned and removed easily. The head harness shall be adjustable or self-adjusting and shall be sufficiently robust to hold the particle filtering half mask firmly in position and be capable of maintaining total inward leakage requirements for the device	Pass
7.14	The field of vision is acceptable if determined so in practical performance tests	Pass

Remark:

N/A: Due to no relevent information/material

N/R: Due to not request



3. Leakage

Test method : EN 149:2001+A1:2009 Clause 8.5

Requirement : FFP2:

At least 46 out of the 50 individual exercise results for total inward

leakage ≤11%

At least 8 out of the 10 individual wearer arithmetic means for the total

inward leakage ≤ 8%

	M001									
		Chaoiman	Leakage (%)							
Subject	Condition	Specimen No.	Walk	Head Side/side	Head Up/down	Talk	Walk	Mean		
BM		1	6.820	6.858	8.681	6.160	6.471	6.998		
ACH		2	6.217	6.743	8.947	8.174	6.003	7.217		
ML	As received	3	6.369	6.586	7.298	7.943	6.967	7.033		
LLC		4	6.483	7.124	8.832	7.335	7.067	7.368		
DG		5	7.124	6.336	8.432	8.143	6.521	7.311		
SG		6	5.632	6.821	7.964	8.148	6.883	7.090		
YL	A <b>£</b> 4 = 12	7	7.643	7.211	8.143	8.621	6.964	7.716		
KQ	After	8	6.845	7.004	7.962	8.047	7.012	7.374		
KXH	conditioning	9	6.431	6.225	8.921	8.882	7.062	7.504		
YY		10	6.119	7.821	8.679	9.021	5.803	7.489		
Coi	nclusion				Pass					

	Facial Dimension Of Subject (mm)									
Subject	BM	ACH	ML	LLC	DG	SG	YL	KQ	KXH	YY
Face length	135	127	120	120	130	135	115	120	130	130
Face width	160	159	133	140	145	155	135	135	155	165
Face Depth	130	122	115	115	132	132	118	115	120	143
Mouth Width	52	55	52	50	50	55	48	50	52	50

4. Flammability

Test method : EN 149:2001+A1:2009 Clause 8.6

Requirement : ≤5s

M001								
Item	Condition	Specimen No	Test results	Conclusion				
	As received	1	1.1					
Afterflame time	As received	2	1.3	Pass				
(s)	After conditioning	3	1.4					
	After conditioning	4	1.3					

### 5. Carbon Dioxide Content Of The Inhalation Air

Test method : EN 149:2001+A1:2009 Clause 8.7

Requirement : ≤1%

M001.								
Item	Condition		Test results Co					
Content (0/)	As received	Specimen 1	Specimen 2	Specimen 3	Mean	Door		
Content (%)	As received	0.62	0.63	0.64	0.63	Pass		



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### 6. Breathing Resistance

Test method : EN 149:2001+A1:2009 Clause 8.9

FFP2:

Requirement Inhalation: 30l/min: ≤0.7mbar

Inhalation: 95l/min: ≤2.4mbar Exhalation: 160l/min:≤3.0mbar

	M001															
Flow rate (I	/min)		Resistance (mbar)													
As receive	rod		Sp	ecime	n 1			Sp	ecime	n 2			Sp	ecime	n 3	
As receiv	eu	Α	В	С	D	Е	Α	В	C	D	Ш	Α	В	С	D	Е
Inhalation	30	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
IIIIIalallOII	95	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.2	1.2
Exhalation	160	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Simulate	ed		Sp	ecime	n 4		Spec		ecime	n 5		Specim		ecime	nen 6	
wearing trea	tment	Α	В	C	D	Е	Α	В	O	D	ш	Α	В	С	D	Е
Inhalation	30	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
IIIIIalallOII	95	1.4	1.4	1.4	1.4	1.4	1.3	1.3	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.4
Exhalation	160	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.4
Temperat	ure		Sp	ecime	n 7			Sp	ecime	n 8			Sp	ecime	n 9	
condition	ed	Α	В	C	D	Е	Α	В	O	D	ш	Α	В	С	D	Е
Inhalation	30	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
IIIIIaialiOII	95	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3
Exhalation	160	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Conclusion								Pass								

Remark: A: facing directly ahead; B: facing vertically upwards; C: facing vertically downwards; D: lying on the left side; E: lying on the right side



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### 7. Penetration Of Filter Material

Test method : EN 149:2001+A1:2009 Clause 8.11

Requirement : FFP2:≤6%

		M001					
Aerosol	Condition	Specimen No.	Penetration (%)				
		1	0.003				
	As received	2	0.001				
		3	0.001				
Codium oblorido		4	0.006				
Sodium chloride Penetration	Simulated wearing treatment	5	0.007				
renetiation		6	0.010				
	Mechanical strength +	7	0.017				
	Temperature conditioned @	8	0.017				
	Exposure test of 120mg	9	0.117				
		10	0.031				
	As received	11	0.043				
		12	0.018				
Paraffin oil		13	0.132				
Penetration	Simulated wearing treatment	14	0.241				
Fenetiation		15	0.167				
	Mechanical strength +	16	0.531				
	Temperature conditioned @	17	0.862				
	Exposure test of 120mg	18	0.863				
Conclusion	Pass						



### Photo:





END -

### General Terms and Conditions of Business of TÜV Rheinland in Greater China

- These General Terms and Conditions of Business of TÜV Rheinland in Greater China ("GTCB") is made between the client and one or more member entitles of TÜV Rheinland in Greater China as applicable as the case may be ("TÜV Rheinland"). The Greater China har golinicable as the Maniand China, Hong Kong and Talwan. The client hereof refers to Maniand China, Hong Kong and Talwan. The client hereof includes: a natural person capable to form legally brinding contracts under the applicable leave Mic concludes the contract not for the purpose of a daily specificable with the concludes the contract not for the purpose of a daily specificable with the concludes the contract not for the purpose of a daily specificable with the concludes the contract not for the purpose of a daily specificable with the concludes the contract of the first purpose of a daily specificable with the concludes the contract of the first purpose of a daily specificable with the concludes the contract of the first purpose of a daily specificable with the concludes the contract of the first purpose of a daily specificable with the contract of the contract of the specificable and the contract of the purpose of the purpose of the contract of the purpose of the contract of the contract of the purpose of the contract of the purpose of the contract o
- the incorporate are with our control to the pulpose or a usually the incorporate of unincorporate dentity duly organized, valley existing and capable to form legally binding contracts under the applicable law. The following terms and conditions agily to agreed services including an accordance of the pulpose of the pulpo 1.2

Unless otherwise agreed, all quotations submitted by TÜV Rheinland can be changed by TÜV Rheinland without notice prior to its acceptance and confirmation by the other party.

- The contract shall come into effect for the agreed terms upon the quotation letter of TOV Rheinhand or a separate contractual document being signed letter of TOV Rheinhand or a separate contractual document being signed carried out by TOV Rheinhand. If the client instructs TOV Rheinhand without carried out by TOV Rheinhand. If the client instructs TOV Rheinhand without receiving a quotation from TOV Rheinhand quotation.) TOV Rheinhand is its sole discretion, entitled to accept the order by giving written notice of staceptance (including notice sent the alectronic means) or by performing requested services.

  The contract term starts upon the coming into effect of the contract in accordance with article 3.1 and shall continue for the term agreed in the contract.
- contract.

  If the contract provides for an extension of the contract term, the contract term will be extended by the term provided for in the contract unless terminated in writing by either party with a six-week notice prior to the end of the contractual term. 3.3

- The scope and type of the services to be provided by TÜV Rheinland shall be specified in the contractually agreed service scope of TÜV Rheinland by both parties. If no such separate service scope of TÜV Rheinland exists, then the written confirmation of order by TÜV Rheinland shall be decisive for the service to be provided.

- their the written contribution or order by LUV kneinand state to ecisive by The agreed services shall be performed in compliance with the regulations in force at the time the contract is entered into.

  TUV Rheinand is entitled to determine, in its sole discretion, the method and nature of the assessment unless otherwise agreed in writing or if mandatory provisions require a specific procedure to be followed.

  To provisions require a specific procedure to be followed.

  The provisions require a specific procedure to be followed.

  The provisions require a specific procedure to be followed.

  The provisions require a specific procedure to be followed.

  The provisions require a specific procedure and working order of either tested or examined parts nor of the installation as a whole and its upstream and/or downstream processes, organisations, use and application in accordance with regulations, nor of the systems on which he installation is construction, selection of materials and assembly of installations examined, nor for their use and application in accordance with regulations, unless these questions are expressly covered by the contract.

  The case of impection work TUV Rheinfand shall not be responsible for
- In the case of inspection work, TÜV Rheinland shall not be responsible for the accuracy or checking of the safety programmes or safety regulations on which the inspections are based, unless otherwise expressly agreed in written.
- the accusacy of circlecting on the salety programmes of salety regulations or writting.

  Indiatory legal regulations are based, unless otherwise expressly agreed in undatory legal regulations and standards or official regularements for the agreed service soops change after conclusion of the contract, with a written notice to the client, TUV Rheinland shall be entitled to additional remumeration for resulting additional expenses. services to be provided by TUV Rheinland under the contract are agreed accusablewly with the client. A contract of third parties with the services of TUV work results (less reports, lest results, expert reports, etc.) is not part of the agreed services. This also applies if the client passes on work results in full or in extracts to third parties in accordance with clause 11.4.

### Performance periods/dates

- 5. Performance periods/dates
  5.1 The contractually agreed periods/dates of performance are based on estimates of the work involved which are prepared in line with the details beinding by TDV Rheinland in writing.
  5.2 If binding periods of performance have been agreed, these periods shall not commence until the client has submitted all required documents to TDV 5.2 If binding periods of performance have been agreed, these periods shall not commence until the client has submitted all required documents to TDV 5.4 Indicates 5.1 and 5.2 also apply, even without express approval by the client, to all extensions of agreed periods/dates of performance not caused by TDV 7.8 Rheinland in not responsible for a delay in performance, in particular if the client has not fulfilled his daties to cooperate in accordance with clause 6.1 Rheinland with all documents and information required for the performance of the service as specified in the contract.

  5.51 the performance of TDV Rheinland is delayed due to unforeseeable circumstances such as fore majeure, strikes, business disruptions is entitled to postpone performance for a reasonable period of time which corresponds at least to the duration of the hindrance plus any time period which may be required to resume performance.

  5. The clients obligation to cooperate.

### The client's obligation to cooperate

- The client shall guarantee that all cooperation required on its part, its agents or third parties will be provided in good time and at no cost to TÜV Rheinland.
- Design documents, supplies, auxiliary staff, etc. necessary for performance of the services shall be made available free of charge by the client. Moreover, collaborative action of the client must be undertaken in accordance with legal provisions, standards, safely regulations and accident prevention instructions. And the client represents and warrants have

- b) the product, service or management system to be certified complies with applicable laws and regulations; and
- it doesn't have any illegal and dishonest behaviours or is not included in the list of Enterprises with Serious Illegal and Dishonest Acts of People's Republic of China.
- Reclient breaches the aforesaid representations and warranties, TÜV Rheinland is entitled to i) immediately terminate the contract/order without prior notice; and ii) withdraw the issued testing report/certificates if any.
- The client shall be are any additional cost incurred on account of work having to be redone or being delayed as a result of late, incorrect or incomplete information provided by or lack of proper cooperation from the client. Even where a fixed or maximum price is agreed, TDV Rheinland shall be entitled to charge extra fees for such additional expense.

- If the scope of performance is not laid down in writing when the order is placed, invoicing shall be based on costs actually incurred. If no price is agreed in writing, invoicing shall be made in accordance with the price last of TUV Pheniland varied at the time of performance. When the price is the value of the price of the pri 7.1
- of the work.

  If the execution of an order extends over more than one month and the value of the contract or the agreed fixed price exceeds e2,500.00 or equivalent value in local currency, TUV Rheinland may demand payments on account or in instalments.

- All invoice amounts shall be due for payment without deduction on receipt of the invoice. No discounts and rebates shall be granted. The property of the property of the property of the property of the on the invoice, stating the invoice and client numbers. In cases of default of payment, TÜV Rheinland shall be entitled to claim default interest at the applicable short term loan interest rate publicly. 8.3
- noed by a reputable commercial bank in the country where TÜV land is located. At the same time, TÜV Rheinland reserves the right to 8.4
- Rhehland is located. At the same time, I by Vietnesser, and the client default in payment of the invoice despite being granted a reasonable grace period. TUV Rhehland shall be entitled to cancel the contract, withdraw the certificate, claim damages for non-performance and The provisions set forth in article 8.4 shall also apply in cases involving returned cheques, cessation of payment, commencement of insolvency

- Objections to the invoices of TÜV Rheinland shall be submitted in writing
- Objections to the invoices of TÜV Rheinland shall be submitted in writing within tow weeks of receipt of the invoice appropriate sources payments. TÜV Rheinland shall be entitled to demand appropriate sources payments. TÜV Rheinland shall be settled to demand the stage of the s

- Acceptance of work

  Any part of the work result ordered which is complete in itself may be presented by TVD Rheinland for acceptance as an instalment. The client shall be obliged to accept it immediately.

  If acceptance is equived or contracturally agreed in an individual case, this shall be determed in here equived or contracturally agreed in an individual case, this shall be deemed in here taken place too (c) weeks after completion and of the completion and contract by TVD Rheinland.

  In our contract by TVD Rheinland.

  Contract by TVD Rheinland.

  Contract be so acceptance due to insignificant breach of contract by TVD Rheinland.

  Contract be so acceptance due to insignificant breach of two the contract by TVD Rheinland.

  Electrical so in the contract by TVD Rheinland and the certificant is interfere to be withdrame (ap performance of as uneitlance audis), TVD Rheinland and the certificant is interfere to be withdrame (ap performance of as uneitlance audis), TVD Rheinland and the certificant is interfere to be withdrame (ap performance of as uneitlance audis), TVD Rheinland and the certificant is interfere to be withdrame (ap performance of as uneitlance audis), TVD Rheinland and the IVD Rheinland has incurred no damage whatsoewer or only a considerably lower damage than the above lump as the client has undertaken in the contract to accept services, TVD Rheinland has been the contract to the proper of the services of these terms and conditions, "confidential information" means all

10.6

- 10. Confidential of these terms and conditions, "confidential information" means all information in the propose of these terms and conditions, "confidential information" means all project documentation which one party (the "disclosing party") hands over, and the confidential information or the confidential information or readed during party"). The propose of the technical standard and related reports. Confidential information created during performance of work by TVD. Rheinland, including product testing data, defects, confirmity to the technical standard and related reports. Confidential information Confidential or otherwise obtained by TVD. Wheinland (not personal) within the scope of the provision of services by TVD. Rheinland, TVD. Rheinland in section of the review of the proposes of developing new services, improving the confidential party. The confidential party of the confidential information disclosed in written form as confidential before passing it onto the receiving party. The same applies to confidential information disclosed in written form as confidential before passing it onto the receiving party. The same applies to confidential information disclosure. Where the disclosing party ship and the provision of the receiving party fails to do so within the stipulated period, the receiving party fail and to deal or confidentially nature of the information distribution of the receiving party fail in the disclosing party fails of the confidential party of the sciencing on the party.

  10.3 All confidential information which the disclosing party transmits or otherwise discloses to the receiving party fail in other and created during performance of work by TUV. Rheinland:

- work by TÜV Phanishand.

  may only be used by the receiving party for the purposes of performing the contract, unless expressly otherwise agreed in writing by the disclosing party.

  may only be used by the receiving party withing by the disclosing party.

  The property of the purpose of the contract of TüV Phenishand is required to pass on confidential information, inspection reports or documentation to the government authorities, judicial court, accordation bodies or third party that the purpose of the contract or TÜV Phenishand is required to pass on confidential information, inspection reports or documentation to the government authorities, judicial court, accordation bodies or third party with the same level of confidentially as the receiving party uses to protect to won confidential information, to never with a lesser level of confidentially than that which is reasonably required.

  The disclosing party only to biose of its employees who need this information to perform the services required for the confidential pricates who received promote the disclosing party only to biose of its employees who need this information to perform the services required for the confidentially clause by the receiving party undertakes to oblige these employees to observe the same level of services are the confidentially clause. In the confidential pricates by the receiving party and the confidentially clause in the confidential pricates by the receiving party and pricates and the confidential pricates by the receiving party are pricated by the disclosing party and pricates and the pricate pricate pricate and the pricate pr

### Copyrights and rights of use, publications

- Copyrights and rights of use, publications
  TÜV Rheinland shall retain all exclusive copyrights in the reports, expert
  TÜV Rheinland shall retain all exclusive copyrights in the reports, expert
  proportsiophinine, set proprisessalls; results, calculations, presentations etc.
  prepared by TÜV Rheinland, unless otherwise agreed by the parties in a
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### Liability of TÜV Rheinland

- times of the fee for the individual order under which the damages or losses have occurred. Notwithstanding the above, in the event that the total and accumulated inability accludated according to the foregoing provisions exceeds 2.5 Million Euro or equivalent amount in local currency, the total and not according to the control of the foregoing the foregoing the foregoing the foregoing the total and not according to add 5.5 Million Euro or equivalent amount in local currency. The limitation of liability according to article 12.1 above shall not apply to damages and/or to increase custed by malco, insertior or gross negligence on the part of TIV Rheinfand or its vicenous agents. Such imitation shall not apply to liability according to a feet of the feet
- available by the client to support TDV Rheinland in the performance of its services under the contract, unless such personnel made available is regarded as vicarious agent of TDV Rheinland. If TDV Rheinland is not liable for the acts of the personnel made available by the client under the foregoing provision, the client shall indemnify TDV Rheinland against any claims made by third parties arining from or in connection with such personnel's acts. otherwise contractually agreed in writing, TDV Rheinland shall only be liable under the contract to the client. The limitation periods for claims for damages shall be based on statutory. None of the provisions of this article 12 changes the burden of proof to the disadvantage of the client.

- on the services provided by TÜV Rheinland or parts thereof to third s in Greater China or other regions, the client must comply with the ctively applicable regulations of national and international export
- assing on the services provided by TUV Rheinland or parts thereof to third parties in Greater China or other regions, the client must comply with the respectively applicable regulations of national and international export formance of a contract with the client is subject to the provision that there are no obstacles to performance due to national or international foreign trade legislations or embargos and/or sanctions. In the event of a voision, TUV Rheinland shall be entitled to terminate the contract with immediate effect and the client shall compensate for the losses incured thereof by TUV

Data protection notice

TOV Rhieriland processes personal data of the client for the purpose of fulfilling this contract, in addition, TOV Rhieriland also processes the data for other things the contract the purpose of fulfilling this contract, and the processes the data for other data of the client will only be disclosed to other natural or legal persons if the legal requirements are met. This also applies to transfer to third countries. The personal data will be deleted immediately as soon as a corresponding reason for deletion arises. Deletion significant processing right of increments are the following rights; and the personal data will be deleted to the processing right of the processing right of the data processing in whe the right to review their consent at any time with effect for the future, as well as the right to file a complant with the competent data protection supervisory authority. For further details on the processing of personal data by TOV Rheinland as the personal resolution of the processing of personal data by TOV Rheinland as the personal resolution of the processing of personal data by TOV Rheinland as the personal resolution of the processing of personal data by TOV Rheinland as the personal resolution of the processing of personal data by TOV Rheinland and the processing of personal data by TOV Rheinland and the processing of personal data by TOV Rheinland and the processing of personal data by TOV Rheinland and Soveral and deleteration of the processing of personal data by TOV Rheinland and Soveral Rheinland Rheinl

- 15.1The risk and costs for freight and transport of documents or test material to and from TÜV Rheinland as well as the costs of necessary disposal measures shall

- Rheinland for the client at the expense of the client, unless otherwise agree. 
  15.3 Undamaged test material shall be stored by TUV Rheinland for four (4) weeks after completion of the test. If a longer storage period is desired, TUV Rheinland charges an appropriate storage fee.

  15.4 After the expriry of the 4 weeks or any longer period agreed upon, the test material will be disposed of by TUV Rheinland for the client for a fee in accordance with clause 15.2.

- 16.1 Notwithstanding clause 3.3 of the GTCB, TDV Rheinland and the client are entitled to terminate the contract in its entirety or, in the case of services combined in one contract, each of the combined parts of the contract individually and independently of the contracts of the remaining services with six (6) mounts' robots to the end of the contractually agreed terminating services with six (6) mounts' robots to the end of the contractually agreed terminating services with six (6) in the client to the client on the client to the client to

- b) the client misuses the certificate or certification mark or uses it in wickino not not continue.

  c) in the event of several consecutive dialge in pawner (at least three times);

  d) a subset are certificated with the continue of the financial circumstances of the client occurs and one of the financial circumstances of the client occurs are as returned to certificate reconsiderably endangered and TüV Rheinland cannot reasonably be expected to continue the control test expected in the continue test control test expected in the case of the fixed control test expected in the case of the
- Rheinland reserves the right to prove a considerably higher damage in 16.4TOV Rheinland is also entitled to terminate the contract with written notice if the client has not been able to make use of the time windows for auditing /service provision provided by TUV Rheinland within the scope of a certification procedure and the certificate therefore has be on withdrawn for example during the performance of monitoring audits). Clause 16.3 applies accordingly.

- invalidity, written form, place of jurisdiction and dispute resolution
  All amendments and applements must be in writing in order to be effective. The alload populses to imprehense has dispulmented but focuse 7.1.
  Should one or several of the provisions under the contract and/or these terms and conditions be or become inteffective, the contracting parties shall replace the immedig provisions with a legally valid provision that comes closest to the context of the invalid provision in legal and commercial learns.

  The contracting parties shall replace the invalid provision in legal and commercial learns.

  The contracting parties and the context of the context and these terms and conditions shall be chosen following the rules as below: in TUV Rhanizand in question is legally registered and existing in the People's Republic of China, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of Taiwan.

  If TUV Rhanizand in question is legally registered and existing in Hawan, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of Taiwan desired in the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of Hawan desired in the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of Hawan desired in the case of the provision of the register of the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of Hawan desired in the case of the provision of the register of the repulsed of the administration of the registerior of the registerior parties hereby agree that the contract and these terms and conditions on the execution thereof shall be selficial through happital shall be submitted: in the case of 10° Mental and insulation partic and the actual with the contraction of the registal parties and the contraction of the prophicia
- Notice of Arbitration is submitted in accordance with these rules. The arbitration shall take place in Hong Kong. cision of the relevant arbitration tribunal shall be final and binding on both parties. The arbitration fee shall be borne by the losing party.



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Client: SUNBEAM INTERNATIONAL GMBH

Contact Information: Schumanstr. 12, 52146 Würselen, Germany

Manufacturer's name: HUNAN DREAMING CLOUD E-COMMERCE CO., LTD

Identification/ Personal Protective Respitator Mask

Model No(s): HS0501A

Condition at delivery: Test item complete and undamaged.

Sample Receiving date: 2021-02-02

*Testing Period:* 2021-02-02 to 2021-02-05

Place of testing: Chemical laboratory Shanghai

Test Specification: Test result:

Customer's requirement:

 Screening of substances of very high concern (SVHC) subject to the candidate Please refer to result list by European Chemical Agency (ECHA) according to Regulation (EC) No. page

1907/2006 of REACH and its amendments

2. REACH Regulation (EC) No. 1907/2006, the last amendment (EU) 2015/628 PASS

entry 63 of Annex XVII - Total Lead Content

3. Total Cadmium Content PASS

4. Organotin compounds content PASS

5. Flame retardants content PASS

 Nonylphenol (NP) and nonylphenol ethoxylate (NPEO) content according to REACH regulation (EC) No. 1907/2006 and amendment no. 552/2009 Annex XVII Item 46 (formerly known as 2003/53/EC)

Other information:

Exproted to: Europe

For and on behalf of TÜV Rheinland (Shanghai) Co., Ltd.

Charting Cai

2021-02-08 Chartting Cai / Project Engineer

Date Name/Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.

This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

'Decision Rule" document announced in our website (https://www.tuv.com/landingpage/en/qm-gcn/) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.



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**Material List:** 

Personal Protective Respitator Mask Item:

HS0501A

Material No.	Material	Color	Location
M001	Textile	black	refer to photo
M002	Rubber + Textile	black	refer to photo
M003	Textile + printing	white+black	refer to photo
M004	Plastic	white	refer to photo
M005	Metal	silver	refer to photo



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1. Screening of Substances of Very High Concern (SVHC) subject to the Candidate List by European Chemical Agency (ECHA) according to Regulation (EC) No. 1907/2006 of REACH and its amendments.

### Conclusion:

	Conclusion							
Product Location	Acc. to Screening of Substances of Very High Concern (SVHC) in Candidate List for authorization published by European Chemicals Agency (ECHA) according to Regulation (EC) No. 1907/2006 of REACH and its amendments, the detected SVHC concentration in components level is	Obligation of Importer (*) (For article)	Detected Substance (if any)					
samples	<0.1%	not necessary	-					

### (For article)

- (\*) To communicate information down the supply chain according to article. 33 of REACH. OR
- 1. Notification to ECHA, if the quantities of SVHC in the produced/imported articles are above 1 ton in total per year per company.
- 2. Provide sufficient information to ensure safe use of the article and, as a minimum, include the name of the substance, to their customers and on request to consumers within 45 days of the receipt of this request.

### **Test Results**

Screening of substances of very high concern (SVHC) subject to the candidate list by European Chemical Agency (ECHA) according to Regulation (EC) No. 1907/2006 of REACH and its amendments.

Test Method: 1) SVOC: organic solvent extraction, determination by GC-MS/ECD

2) VOC: organic solvent extraction, determination by GC-MS

3) VVOC: headspace-GC/MS analysis

4) non-VOC: organic solvent extraction, determination by LC-MS/MS.

5) inorganics: acid digestion, determination by ICP-OES

Test No.:	T001	T002	T003
Material No.:	M001 + M003	M002	M004
Result (%)	<rl< td=""><td><rl< td=""><td><rl< td=""></rl<></td></rl<></td></rl<>	<rl< td=""><td><rl< td=""></rl<></td></rl<>	<rl< td=""></rl<>

Test No.:	T004
Material No.:	M005
Result (%)	<rl< td=""></rl<>

Abbreviation: < = less than

RL =Reporting Limit % =Percentage



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### Remark:

(\*1) The reporting limit for each individual SVHC in Candidate List by ECHA:

	Substance	CAS No.	Reporting Limit
1	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	0.01%
2	Benzyl butyl phthalate (BBP)	85-68-7	0.01%
3	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.01%
4	Dibutyl phthalate (DBP)	84-74-2	0.01%
5	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	25637-99-4 / 3194-55-6 / 134237-50-6 / 134237-51-7 / 134237-52-8	0.01%
6	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2	0.01%
7	2,4-Dinitrotoluene (2,4-DNT)	121-14-2	0.01%
8	Diisobutyl phthalate (DIBP)	84-69-5	0.01%
9	Tris(2-chloroethyl)phosphate	115-96-8	0.01%
10	Diarsenic pentaoxide (*2)	1303-28-2	0.01%
11	Diarsenic trioxide (*2)	1327-53-3	0.01%
12	Lead chromate (*2)(*3)	7758-97-6	0.01%
13	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) (*2)(*3)	12656-85-8	0.01%
14	Lead sulfochromate yellow (C.I. Pigment Yellow 34) (*2)	1344-37-2	0.01%
15	Trichloroethylene	79-01-6	0.01%
16	Chromium trioxide (*2)	1333-82-0	0.01%
17	Acids generated from chromium trioxide and their oligomers: Names of the acids and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid. (*2)	7738-94-5 / 13530-68-2	0.01%
18	Sodium dichromate (*2)(*3)	7789-12-0 / 10588-01-9	0.01%
19	Potassium dichromate *2)(*3)	7778-50-9	0.01%
20	Ammonium dichromate (*2)(*3)	7789-09-5	0.01%
21	Potassium chromate (*2)(*3)	7789-00-6	0.01%
22	Sodium chromate (*2)(*3)	7775-11-3	0.01%
23	Formaldehyde, oligomeric reaction products with aniline (technical MDA) (*10)	25214-70-4	0.01%
24	1,2-Dichloroethane	107-06-2	0.01%
25	Bis(2-methoxyethyl) ether	111-96-6	0.01%
26	Arsenic acid (*2)	7778-39-4	0.01%
27	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	0.01%
28	Dichromium tris(chromate) (*2)(*3)	24613-89-6	0.01%
29	Strontium chromate (*2)(*3)	7789-06-2	0.01%
30	Potassium hydroxyoctaoxodizincatedichromate (*2)(*3)	11103-86-9	0.01%
31	Pentazinc chromate octahydroxide (*2)(*3)	49663-84-5	0.01%
32	1-bromopropane (n-propyl bromide)	106-94-5	0.01%
33	Diisopentylphthalate	605-50-5	0.01%
34	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	0.01%



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	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters		
35	(DHNUP)	68515-42-4	0.01%
36	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.01%
37	Bis(2-methoxyethyl) phthalate	117-82-8	0.01%
	Dipentyl phthalate (DPP)	131-18-0	0.01%
39	N-pentyl-isopentylphthalate	776297-69-9	0.01%
	Anthracene oil (*6)	90640-80-5	0.01%(*7)
41	Pitch, coal tar, high temperature (*6)	65996-93-2	0.01%(*7)
42	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated (OPEO) [covering well-defined substances and UVCB substances, polymers and homologues]	-	0.01%
12	4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	0.01%
44	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.01%
45	Dihexyl phthalate	84-75-3	0.01%
	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 / 68648-93-1	0.01%
47	Trixylyl phosphate	25155-23-1	0.01%
48	Sodium perborate,perboric acid, sodium salt (*2) (*5)		0.01%
49	Sodium peroxometaborate (*2) (*5)	7632-04-4	0.01%
50	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	-	0.01%
51	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.01%
52	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.01%
53	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.01%
54	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.01%
55	Anthracene	120-12-7	0.01%
56	Bis(tributyltin) oxide (TBTO) (*4)	56-35-9	0.01%
57	Triethyl arsenate (*2)	15606-95-8	0.01%
58	Lead hydrogen arsenate (*2)	7784-40-9	0.01%
59	Cobalt dichloride (*2)	7646-79-9	0.01%
60	Acrylamide	79-06-1	0.01%
61	Anthracene oil, anthracene paste, distn. lights (*6)	91995-17-4	
62	Anthracene oil, anthracene paste, anthracene fraction (*6)	91995-15-2	
63	Anthracene oil, anthracene-low (*6)	90640-82-7	0.01% (*7)
64	Anthracene oil, anthracene paste (*6)	90640-81-6	, ,
	, , , , , , , , , , , , , , , , , , , ,		
65	Boric acid (*2) (*5)	10043-35-3 / 11113-50-1	0.01%



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67	Tetraboron disodium heptaoxide, hydrate (*2) (*5)	12267-73-1	0.01%
68	2-Methoxyethanol	109-86-4	0.01%
69	2-Ethoxyethanol	110-80-5	0.01%
70	Cobalt(II) sulphate (*2)	10124-43-3	0.01%
71	Cobalt(II) dinitrate (*2)	10141-05-6	0.01%
72	Cobalt(II) carbonate (*2)	513-79-1	0.01%
73	Cobalt(II) diacetate (*2)	71-48-7	0.01%
74	Alkanes C10-C13, chloro (Short Chain Chlorinated Paraffins) (SCCP)	85535-84-8	0.01%
75	2-Ethoxyethyl acetate	111-15-9	0.01%
76	Hydrazine	302-01-2 / 7803-57-8	0.01%
77	1-Methyl-2-pyrrolidone (NMP)	872-50-4	0.01%
78	1,2,3-Trichloropropane	96-18-4	0.01%
79	Aluminosilicate Refractory Ceramic Fibres (RCF) (*8)	-	0.01%
80	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) (*8)	-	0.01%
81	2-Methoxyaniline,o-Anisidine	90-04-0	0.01%
82	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.01%
83	Calcium arsenate (*2)	7778-44-1	0.01%
84	Trilead diarsenate (*2)	3687-31-8	
85	N,N-dimethylacetamide (DMAC)	127-19-5	0.01%
86	Phenolphthalein	77-09-8	0.01%
87	Lead dipicrate (*2)	6477-64-1	0.01%
88	Lead diazide, Lead azide (*2)	13424-46-9	0.01%
89	Lead styphnate (*2)	15245-44-0	0.01%
90	1,2-bis(2-methoxyethoxy)ethane (TEGDME,triglyme)	112-49-2	0.01%
91	1,2-dimethoxyethane,ethylene glycol dimethyl ether (EGDME)	110-71-4	0.01%
92	Diboron trioxide (*2) (*5)	1303-86-2	0.01%
93	Formamide	75-12-7	0.01%
94	Lead(II) bis(methanesulfonate) (*2)	17570-76-2	0.01%
95	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	0.01%
96	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	59653-74-6	0.01%
97	4,4'-bis(dimethylamino)benzophenone (Michler's ketone), MK	90-94-8	0.05%
98	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base), RMK	101-61-1	0.01%
99	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] (*2)	2580-56-5	
100	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] (*9)	548-62-9	0.01%
101	4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] (*9)	561-41-1	
102	$\alpha$ ,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with $\geq$ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] (*9)	6786-83-0	



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103	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	1163-19-5	0.01%
104	Pentacosafluorotridecanoic acid	72629-94-8	0.01%
105	Tricosafluorododecanoic acid	307-55-1	0.01%
106	Henicosafluoroundecanoic acid	2058-94-8	0.01%
107	Heptacosafluorotetradecanoic acid	376-06-7	0.01%
108	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA) (*11)	123-77-3	0.05%
109	Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry]	85-42-7 / 13149-00-3 / 14166-21-3	0.01%
110	Hexahydromethylphthalic anhydride (MHHPA) [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]	25550-51-0 / 19438-60-9 / 48122-14-1 / 57110-29-9	0.01%
111	N,N-dimethylformamide	68-12-2	0.01%
112	1,2-Diethoxyethane	629-14-1	0.01%
113	Diethyl sulphate	64-67-5	0.01%
114	Methoxyacetic acid (MAA)	625-45-6	0.01%
115	Dimethyl sulphate	77-78-1	0.01%
116	N-methylacetamide	79-16-3	0.01%
117	Furan	110-00-9	0.01%
118	Methyloxirane (Propylene oxide)	75-56-9	0.01%
119	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.01%
120	Dibutyltin dichloride (DBTC) (*15)	683-18-1	0.01%
121	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	0.01%
122	4,4'-methylenedi-o-toluidine	838-88-0	0.01%
123	4,4'-oxydianiline and its salts	101-80-4	0.01%
124	4-Aminoazobenzene	60-09-3	0.01%
125	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	0.01%
126	6-methoxy-m-toluidine (p-cresidine)	120-71-8	0.01%
127	Biphenyl-4-ylamine	92-67-1	0.01%
128	o-aminoazotoluene	97-56-3	0.01%
129	o-Toluidine	95-53-4	0.01%
130	Acetic acid, lead salt, basic (*2)	51404-69-4	0.01%
131	Trilead bis(carbonate) dihydroxide (*2)	1319-46-6	0.01%
132	Lead oxide sulfate (*2)	12036-76-9	0.01%
133	[Phthalato(2-)]dioxotrilead (*2)	69011-06-9	0.01%
134	Dioxobis(stearato)trilead (*2)	12578-12-0	0.01%
135	Fatty acids, C16-18, lead salts (*2)	91031-62-8	0.01%
136	Lead bis(tetrafluoroborate) (*2)	13814-96-5	0.01%
137	Lead cyanamidate (*2)	20837-86-9	0.01%
138	Lead dinitrate (*2)	10099-74-8	0.01%
139	Lead monoxide (lead oxide) (*2)	1317-36-8	0.01%
140	Orange lead (lead tetroxide) (*2)	1314-41-6	0.01%



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			_
141	Lead titanium trioxide (*2)	12060-00-3	0.01%
142	Lead titanium zirconium oxide (*2)	12626-81-2	0.01%
143	Pyrochlore, antimony lead yellow (*2)	8012-00-8	0.01%
144	Pentalead tetraoxide sulphate (*2)	12065-90-6	0.01%
145	Silicic acid (H2Si2O5), barium salt (1:1), lead-doped [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD),the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008] (*2)	68784-75-8	0.01%
146	Silicic acid, lead salt (*2)	11120-22-2	0.01%
147	Sulfurous acid, lead salt, dibasic (*2)	62229-08-7	0.01%
148	Tetraethyllead (*2)	78-00-2	0.01%
149	Tetralead trioxide sulphate (*2)	12202-17-4	0.01%
150	Trilead dioxide phosphonate (*2)	12141-20-7	0.01%
151	Ammonium pentadecafluorooctanoate (APFO) (*12)	3825-26-1	0.01%
152	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.01%
153	Cadmium (*2)	7440-43-9	0.01%
154	Cadmium oxide (*2)	1306-19-0	0.01%
155	4-Nonylphenol, branched and linear, ethoxylated (NPEO) [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	-	0.01%
156	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.01%
157	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.01%
158	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.01%
159	Lead di(acetate) (*2)	301-04-2	0.01%
160	Cadmium sulphide (*2)	1306-23-6	0.01%
161	Cadmium chloride (*2)	10108-64-2	0.01%
162	Cadmium fluoride (*2)	7790-79-6	0.01%
163	Cadmium sulphate (*2)	10124-36-4 / 31119-53-6	0.01%
164	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) (*13)	15571-58-1	0.01%
165	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE) (*14)	-	0.01%
166	1,3-propanesultone	1120-71-4	0.01%
167	Nitrobenzene	98-95-3	0.01%
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	0.01%
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.01%
170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.01%
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2 3830-45-3 3108-42-7	0.01%
172	4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	0.01%



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173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.01%
174	Perfluorohexane-1-sulfonic acid and its salts (PFHxS)	-	0.01%
175	Chrysene	218-01-9	0.01%
176	Benzo[a]anthracene	56-55-3	0.01%
177	Cadmium nitrate(*2)	10325-94-7	0.01%
178	Cadmium hydroxide(*2)	21041-95-2	0.01%
179	Cadmium carbonate(*2)	513-78-0	0.01%
180	1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo [12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"TM) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.01%
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.01%
182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride, TMA)	552-30-7	0.01%
183	Dicyclohexyl phthalate (DCHP)	84-61-7	0.01%
184	Terphenyl, hydrogenated	61788-32-7	0.01%
185	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.01%
186	Decamethylcyclopentasiloxane (D5)	541-02-6	0.01%
187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.01%
188	Ethylenediamine (EDA)	107-15-3	0.01%
189	Lead	7439-92-1	0.01%
190	Disodium octaborate (*2)(*5)	12008-41-2	0.01%
191	Benzo[ghi]perylene	191-24-2	0.01%
192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.01%
193	Benzo[k]fluoranthene	207-08-9	0.01%
194	Fluoranthene	206-44-0	0.01%
195	Phenanthrene	85-01-8	0.01%
196	Pyrene	129-00-0	0.01%
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan- 2-one	15087-24-8	0.01%
198	2-methoxyethyl acetate	110-49-6	0.01%
199	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	0.01%
200	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	0.01%
201	4-tert-butylphenol	98-54-4	0.01%
202	Diisohexyl phthalate (DiHexP)	71850-09-4	0.01%
203	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.01%
204	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.01%
205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.01%
206	1-vinylimidazole	1072-63-5	0.01%
207	2-methylimidazole	693-98-1	0.01%
208	Butyl 4-hydroxybenzoate	94-26-8	0.01%
209	Dibutylbis(pentane-2,4-dionato-O,O')tin(*15)	22673-19-4	0.01%
210	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	0.01%
211	Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety (*13)	-	0.01%



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### Remark:

- (\*2) The substances are tested and calculated in terms of its respective elements and to the worst-case scenario. And the elements may come from the compounds other than SVHCs.
- (\*3) The substances are tested and calculated in terms of Cr (VI).
- (\*4) The substance is tested and calculated in terms of Tributyl tin.
- (\*5) The substances are confirmed and tested in terms of borate and the borate may come from the compounds other than SVHCs.
- (\*6) The substances are UVCB (substance of unknown or variable composition, complex reaction products or biological materials), which are identified by its main constituents.
- (\*7) Individual concentrations to the constituent of UVCB with an amount of < 0.01% were not considered by the calculation of the sum.
- (\*8) The test results are based on microscopic and chemical evaluation.
- (\*9) The substances are quantified in terms of Michler's ketone and Michler's base by LC-MS, as Michler's ketone or Michler's base was found exceeds 0.01%.
- (\*10) The content oligomer is determined by Py-GC/MS.
- (\*11) The content of diazene-1,2-dicarboxamide is analyzed in terms of its breakdown product.
- (\*12) The substance is tested in terms of pentadecafluorooctanoate.
- (\*13) The substance is tested and calculated in terms of Dioctyl tin.
- (\*14) The substance is tested and calculated in terms of Monooctyl tin and Dioctyl tin.
- (\*15) The substance is tested and calculated in terms of Dibutyl tin



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### 2.Total Lead

Test Method: CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3 and CPSC-CH-E1003-09.1 (Microwave

method)

### Test result:

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory Requirement	Test Result
T001	M001 + M002 + M003	Lead Content	%	0.001	0.05	< RL
T002	M004	Lead Content	%	0.001	0.05	< RL
T003	M005	Lead Content	%	0.001	0.05	< RL

**Abbreviation:** < = less than

RL = Reporting Limit % = percentage

### Remark:

\* Regulation on Lead:

Country	Legislation	Maximum Permissible Limit
EU	Paragraph 1-6 of Entry 63 of Annex XVII, REACH Regulation (EC) No. 1907/2006	For Jewellery, imitation jewellery, hair accessories, bracelets, necklaces, rings, piercing jewellery, wrist watches, wrist-wear, brooches and cufflinks and parts used for jewellery-making  0.05%  (by weight of the individual part)
	Paragraph 7-10 of Entry 63 of Annex XVII, REACH Regulation (EC) No. 1907/2006	Articles supplied to the general public during normal or reasonably foreseeable conditions of use, be placed in the mouth by children  0.05%  (by weight of the individual part)
		The limit shall not apply where it can be demonstrated that the rate of lead release from such an article or any such accessible part of an article, whether coated or uncoated, does not exceed 0,05 $\mu g/cm^2$ per hour (equivalent to 0,05 $\mu g/g/h$ ), and, for coated articles, that the coating is sufficient to ensure that this release rate is not exceeded for a period of at least two years of normal or reasonably foreseeable conditions of use of the article.



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### 3.Total Cadmium Content

Test Method: For plastic: EN 1122:2001 (method B)

For metal and other material: Acid digestion, analyzed by AAS/ ICP-OES

### **Test Result:**

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory Requirement	Test Result
T001 M00	M001 +	Trial 1	mg/kg	10	100	< RL
	M002 + M003	Trial 2	mg/kg	10	100	< RL
		Average	mg/kg	10	100	< RL
T002	M004	Trial 1	mg/kg	10	100	< RL
		Trial 2	mg/kg	10	100	< RL
		Average	mg/kg	10	100	< RL

**Abbreviation:** < = less than

RL = Reporting Limit

mg/kg = milligram per kilogram

### Remark:

\*Regulations on Cadmium

		Maximum Permissible Limit					
EU	Legislation	Plastic materials	Paint (wet state)	Paint on the painted articles	Paint (high zinc content)	Metal parts of jewellery and imitation jewellery articles and hair assessories	
EC	REACH regulation (EC) No. 1907/2006 Annex XVII Item 23 and its amendments (EC) No. 552/2009, (EU) No. 494/2011, (EU) No. 835/2012 and (EU) No. 217/2016.	100mg/kg	100mg/kg	1000mg/kg	1000mg/kg	100mg/kg	

	1	Maximum Permissible Limit		
Country	Legislation	Paint, plastic, plating/ coating of surface treatment		
Switzerland	Switzerland Chemikalien- Risikoreduktions-Verordnung- ChemRRV, 814.81, 18 May 2005	100mg/kg		



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### 4. Organotin compounds content

Test Method: Organic solvent extraction, GCMS

Ref. to ISO/TS 16179:2012

			Test No.	T001	T002
			Material No.	M001 + M002 + M003	M004
Test Parameter	Unit	RL	Regulatory Requirement	Result	Result
TBT(Tributyltin) by weight of tin	%	0.01	0.1	< RL	< RL
TPT(Triphenyltin) by weight of tin	%	0.01	0.1	< RL	< RL
TOT(Trioctyltin) by weight of tin	%	0.01	0.1	< RL	< RL
TCyT(Tricyclohexyltin) by weight of tin	%	0.01	0.1	< RL	< RL
TPrT(Tripropyltin) by weight of tin	%	0.01	0.1	< RL	< RL
DBT(Dibutyltin) by weight of tin	%	0.01	0.1	< RL	< RL
DOT(Dioctyltin) by weight of tin	%	0.01	0.1	< RL	< RL

**Abbreviation:** < = less than

RL = Reporting Limit % = percentage NA = Not Applicable



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## Remark:

- Single components with an amount of <0.01% were not considered in the calculation of the sum. In the case of all five tri-substituted organities were not detected, the result is stated < RL
- The assessment for tri-substituted organotins is based on the sum of TBT, TPT, TOT, TCyT and TPrT by weight of tin only.
- According to REACH Regulation (EC) No. 1907/2006 Annex XVII Entry 20 and amendment Commission Regulation (EU) No. 276/2010 (formerly known as 2009/425/EC), organostannic compounds shall not be used or be placed on the market.

Type of organostannic compounds	Maximum Permissible Limit	Implementation date
Tri-substituted organostannic compounds, e.g. tributyltin (TBT) compounds and triphenyltin (TPT) compounds	0.1 % by weight of tin	1 July 2010
Dibutyltin (DBT) compounds in mixtures and articles for supply to the general public	0.1 % by weight of tin	1 January 2012  The below products will not be applicable until 1 January 2015: - one-component and two-component room temperature vulcanisation sealants (RTV-1 and RTV-2 sealants) and adhesives, - paints and coatings containing DBT compounds as catalysts when applied on articles, - soft polyvinyl chloride (PVC) profiles whether by themselves or coextruded with hard PVC, - fabrics coated with PVC containing DBT compounds as stabilisers when intended for outdoor applications, - outdoor rainwater pipes, gutters and fittings, as well as covering material for roofing and facades
Dioctyltin (DOT) compounds  - textile articles intended to come into contact with the skin,  - gloves,  - footwear or part of footwear intended to come into contact with the skin,  - wall and floor coverings  - childcare articles,  - female hygiene products,  - nappies,  - two-component room temperature vulcanisation moulding kits (RTV-2 moulding kits)	0.1 % by weight of tin	1 January 2012



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## 5.Flame Retardants

Test Method: Organic solvent extraction, analyzed by GCMS & LCMS

				Test No.	T001	T002
				Material No.:	M001 + M003	M002
Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Result	Result
Polybrominated biphenyls (PBB)	59536-65-1	mg/kg	5	1000	< RL	< RL

				Test No.	T003
				Material No.:	M004
Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Result
Polybrominated biphenyls (PBB)	59536-65-1	mg/kg	5	1000	< RL

**Abbreviation:** < = less than

RL = Reporting Limit

mg/kg = milligram per kilogram



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## Remark:

List of PBBs

List of PBDEs

List of PBBs	List of PBBs				
1	Bromobiphenyl				
2	Dibromobiphenyl				
3	Tribromobiphenyl				
4	Tetrabromobiphenyl				
5	Pentabromobipheny				
6	Hexabromobiphenyl				
7	Heptabromobiphenyl				
8	Octabromobiphenyl				
9	Nonabromobiphenyl				
10	Decabromobiphenyl				
List of PBDEs					
1	Bromodiphenylether				
2	Dibromodiphenyl ether				
3	Tribromobiphenyl ether				
4	Tetrabromobiphenyl ether				
5	Pentabromobipheny ether				
6	Hexabromobiphenyl ether				
7	Heptabromobiphenyl ether				
8	Octabromobiphenyl ether				
9	Nonabromobiphenyl ether				
10	Decabromobiphenyl ether				



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## 6. Nonylphenol and Nonylphenolethoxylates

Test Method: NP and OP:

For Plastics- Organic solvent extraction, GCMS For Textiles- Organic solvent extraction, LC-MS

NPEO and OPEO:

Organic solvent extraction, LC-MS

## **Test Result:**

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory Requirement	Test Result
T004	M001 +	Nonylphenol (NP)	mg/kg	5	1000	< RL
T001 M002 + M003	Nonylphenolethoxylates (NPEO)	mg/kg	20	100	< RL	
T002	M004	Nonylphenol (NP)	mg/kg	5	1000	< RL
T002   M004	Nonylphenolethoxylates (NPEO)	mg/kg	20	100	< RL	

**Abbreviation:** < = less than

RL = Reporting Limit

mg/kg = milligram per kilogram

NA = Not Applicable % = percentage 0.1% = 1000 mg/kg

## Remark:

- \*1 The requirement is following REACH regulation (EC) No. 1907/2006 and amendment no. 552/2009 Annex XVII Item 46 (formerly known as 2003/53/EC)
  - (1) Industrial and institutional cleaning;
  - (2) Domestic cleaning;
  - (3) Textiles and leather processing;
  - (4) Emulsifier in agricultural teat dips;
  - (5) Metal working;
  - (6) Manufacturing of pulp and paper:
  - (7) Cosmetic products:
  - (8) Other personal care products;
  - (9) Co-formulants in pesticides and biocides.
- \*2 The requirement is following REACH regulation (EC) No. 1907/2006 and amendment no. 552/2009 and (EU) 2016/26 Annex XVII Entry 46a:

Nonylphenol ethoxylates shall not be placed on the market after 3 February 2021 in textile articles which can reasonably be expected to be washed in water during their normal lifecycle, in concentrations equal to or greater than 0,01 % by weight of that textile article or of each part of the textile article.



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# Sample Photos





### General Terms and Conditions of Business of TÜV Rheinland in Greater China

- These General Terms and Conditions of Business of TÜV Rheinland in Greater China ("GTCB") is made between the client and one or more member entitles of TÜV Rheinland in Greater China as applicable as the case may be ("TÜV Rheinland"). The Greater China hereof refers to Mainland China, Hong Kong and Taiwan.The client hereof includes:
- a natural person capable to form legally binding contracts under the applicable laws who
  concludes the contract not for the purpose of a daily use;
- (ii) the incorporated or unincorporated entity duly organized, validly existing and capable to form legally binding contracts under the applicable law.
- 1.2 The following terms and conditions apply to agreed services including consultancy services, information, deliveries and similar services as well as ancillary services and other secondary obligations provided within the scope of contract performance.
- Any standard terms and conditions of the client of any nature shall not apply and shall hereby be expressly excluded. No standard contractual terms and conditions of the clien shall form part of the contract even if TÜV Rheinland does not explicitly object to them.
- In the context of an ongoing business relationship with the client, this GTCB shall also apply to future contracts with the client without TÜV Rheinland having to refer to them separately

Unless otherwise agreed, all quotations submitted by  $T\bar{U}V$  Rheinland can be changed by  $T\bar{U}V$  Rheinland without notice prior to its acceptance and confirmation by the other party.

#### Coming into effect and duration of contracts

- The contract shall come into effect for the agreed terms upon the quotation letter of TÜV Rheinland or a separate contractual document being signed by both contracting parties, upon the works requested by the client being carried out by TÜV Rheinland. If the client instructs TÜV Rheinland without receiving a quotation from TÜV Rheinland (quotation ITVV Rheinland, in its sed elscretion, entitled to accept the order by giving written cof such acceptance (unding notice sent via electronic means) or by performing the requested services.
- 3.2 The contract term starts upon the coming into effect of the contract in accordance with article 3.1 and shall continue for the term agreed in the contract.
- 3.3 If the contract provides for an extension of the contract term, the contract term will be extended by the term provided for in the contract unless terminated in writing by either party with a six-week notice prior to the end of the contractual term.

#### 4. Scope of services

- The scope and type of the services to be provided by TÜV Rheinland shall be specified in the contractually agreed service scope of TÜV Rheinland by both parties. If no such separate service scope of TÜV Rheinland exists, then the written confirmation of order by TÜV Rheinland shall be decisive for the service to be provided.
- 4.2 The agreed services shall be performed in compliance with the regulations in force at the time the contract is entered into.
- TÜV Rheinland is entitled to determine, in its sole discretion, the method and nature of the assessment unless otherwise agreed in writing or if mandatory provisions require a specific procedure to be followed.
- On execution of the work there shall be no simultaneous assumption of any guarat the correctness (proper quality) and working order of either tested or examined parts the installation as a whole and fits upstream and/or downstream processes, organis use and application in accordance with regulations, nor of the systems on whi installation is based. In particular, TVD Rheinard shall assume no responsibility construction, selection of materials and assembly of installations examined, nor for use and application in accordance with regulations, unless these questions are ex-covered by the contract.
- 4.5 In the case of inspection work, TÜV Rheinland shall not be responsible for the accuracy or checking of the safety programmes or safety regulations on which the inspections are based, unless otherwise expressly agreed in writing.
- 4.6 If mandatory legal regulations and standards or official requirements for the agreed service scope change after conclusion of the contract, with a written notice to the client, TUV Rheinland shall be entitled to additional remuneration for resulting additional expenses.
- 4.7The services to be provided by TÜV Rheinland under the contract are agreed exclusively with the client. A contract of third parties with the services of TÜV Rheinland, as well as making available of and justifying confidence in the work results (test reports, test results, expert reports, etc.) is not part of the agreed services. This also applies if the client passes or work results in full or in extracts to third parties in accordance with clause 11.4.

#### Performance periods/dates

- The contractually agreed periods/dates of performance are based on estimates of involved which are prepared in line with the details provided by the client. They be binding if being confirmed as binding by TÜV Rheinland in writing.
- 5.2 If binding periods of performance have been agreed, these periods shall not commence until the client has submitted all required documents to TÜV Rheinland.
- 5.3 Articles 5.1 and 5.2 also apply, even without express approval by the client, to all extensions of agreed periods/dates of performance not caused by TÜV Rheinland.
- 5.4TÜV Rheinland is not responsible for a delay in performance, in particular if the client has not fulfilled his duties to cooperate in accordance with clause 6.1 or has not done so in time and, in particular, has not provided TÜV Rheinland with all documents and information required for the performance of the service as specified in the contract.
- 5.5If the performance of TÜV Rheinland is delayed due to unforsesseable circumstances such as force majeure, strikes, business disruptions, governmental regulations, transport obstacles, etc., TÜV Rheinland is entitled to postpone performance for a reasonable period of time which corresponds at least to the duration of the hindrance plus any time period which may be required to resume performance.

### The client's obligation to cooperate

- The client shall guarantee that all cooperation required on its part, its agents or third parties will be provided in good time and at no cost to TÜV Rheinland.
- 6.2 Design documents, supplies, auxiliary staff, etc. necessary for performance of the services shall be made available free of charge by the client. Moreover, collaborative action of the client must be undertaken in accordance with legal provisions, staffaxfs, safety regulations and accident prevention instructions. And the client represents and warrants that:
  - a) it has required statutory qualifications:
  - b) the product, service or management system to be certified complies with applicable laws and regulations; and
  - c) it doesn't have any illegal and dishonest behaviours or is not included in the list of Enterprises with Serious Illegal and Dishonest Acts of People's Republic of China.
  - If the client breaches the aforesaid representations and warranties, TÜV Rheinland is entitled to i) immediately terminate the contract/order without prior notice; and ii) withdraw the issued testing report/certificates if any.
- The client shall bear any additional cost incurred on account of work having to be redone or being delayed as a result of late, incorrect or incomplete information provided by or lack of proper cooperation from the cli

- If the scope of performance is not laid down in writing when the order is placed, invoicing shall be based on costs actually incurred. If no price is agreed in writing, invoicing shall be made in accordance with the price list of TÜV Rheinland valid at the time of performance.
- 7.2 Unless otherwise agreed, work shall be invoiced according to the progress of the work.
- 7.3 If the execution of an order extends over more than one month and the value of the contract or the agreed fixed price exceeds £2,500.00 or equivalent value in local currency, TÜV Rheinland may demand payments on account or in instalments.

- All invoice amounts shall be due for payment without deduction on receipt of the invoice. No discounts and rebates shall be granted.
- 8.2 Payments shall be made to the bank account of TÛV Rheinland as indicated on the invoice, stating the invoice and client numbers.
- 8.3 In cases of default of payment, TÜV Rheinland shall be entitled to claim default interest at the applicable short term loan interest rate publicly announced by a reputable commercial bank in the country where TÜV Rheinland is located. At the same time, TÜV Rheinland reserves the right to claim further damages.
- Should the client default in payment of the invoice despite being granted a reasonable grace period, TÜV Rheinland shall be entitled to cancel the contract, withdraw the certificate, claim damages for non-performance and refuse to continue performance of the
- 8.5 The provisions set forth in article 8.4 shall also apply in cases involving returned cheques, cessation of payment, commencement of insolvency proceedings against the client's assets or cases in which the commencement of insolvency proceedings has been dismissed due to lack of assets.

- 8.6 Objections to the invoices of TÜV Rheinland shall be submitted in writing within two v of receipt of the invoice.
- 8.7 TÜV Rheinland shall be entitled to demand appropriate advance payments
- 8.7 IUV kneinland shall be entitled to cales its fees at the beginning of a month if overheads and/or purchase costs have increased. In this case, TDV Rheinland shall be intelled to raise its fees at the beginning of a month if overheads and/or purchase costs have increased. In this case, TDV Rheinland shall notify the client in writing of the rise in fees. This notification shall be issued one month prior to the date on which the rise in fees shall come into effect (period of notice of changes in fees). If the rise in fees remains under 5% per contractual year, the client shall not have the right to terminate the contract. If the rise in fees exceed 5% per contractual year, the client shall be described to the right to terminate the contract is not terminated, the changed fees shall be deemed to have been agreed upon by the time of the expiry of the notice period.
- $8.9\,$  Only legally established and undisputed claims may be offset against claims by TÜV Rheinland.

- 9.1 Any part of the work result ordered which is complete in itself may be presented by TÜV Rheinland for acceptance as an instalment. The client shall be obliged to accept it instalment.
- 9.2 If acceptance is required or contractually agreed in an individual case, this shall be deemed to have taken place two (2) weeks after completion and handover of the work, unless the client refuses acceptance within this period stating at least one fundmental breach of contract by TÜV Rheinland.
- 9.3 The client is not entitled to refuse acceptance due to insignificant breach of contract by TÛV Rheinland.
- 9.4 If acceptance is excluded according to the nature of the work performance of TÜV Rheinland, the completion of the work shall take its place.
- rnemanu, the completion of the work shall take its place.

  9.5 If the client was unable to make use of the time windows provided for within the scope of contribution procedure for auditing/performance by TDV. Rheinland and the certificate between the bedterfores on the editorious contribution of the contr
- 9.6 Insofar as the client has undertaken in the contract to accept services, TOV Rheinland shall also be entitled to charge lump-sum damages in the amount of 10% of the order amount as compensation for expenses if the service is not called within one year after the order has been placed. The client reserves the right to prove that the TOV Rheinland has incurred no damage whatsoever or only a considerably lower damage than the above mentioned lump and the contract of the place of the reserves the reserves

- 10. Confidentiality
  10.1-for the purpose of these terms and conditions, "confidential information" means all information, documents, images, drawings, know-how, data, samples and project documentation which one party (the "discision party") hand be confidential information causing party hands to the confidential information causing party hands to the confidential information causing party party hands to the confidential information causing paper copies and electronic objects of such information. Confidential information is exp not the data and know-how collected, compiled or otherwise obtained by TÜV. Rheinland (non-personal) within the scope of the provision of services by TÜV. Rheinland. TÜV Rheinland is entitled to store, use, further develop and pass on the data obtained in connection with the provision of services for the purposes of developing new services, improving services and analysing the provision of services.
- 10.2 The disclosing party shall mark all confidential information disclosed in written form as confidential before passing it onto the receiving party. The same applies to confidential information it ackicodes or law the receiving party shall be appropriately informed in advance and the disclosing party shall confirm in writing the confidentiality nature of the information within few exiding days of raid disclosure. Where the disclosing party fails to do so within the stipulated period, the receiving party shall not take any confidentiality handle party fails to do so within the stipulated period, the receiving party shall not take any confidentiality obligations hereunder towards such information.
- 10.3 All confidential information which the disclosing party transmits or otherwise discloses to the receiving party and which is created during performance of work by TÜV Rheinland:

a)may only be used by the receiving party for the purposes of performing the contract, unless expressly otherwise agreed in writing by the disclosing party;

b)may not be copied, distributed, published or otherwise disclosed by the receiving party, unless this is necessary for fulfilling the purpose of the contract or TUV Rheinland is require to pass on confidential information, inspection reports or documentation to the governmen authorities, judicial court, accreditation bodies or third parties that are involved in the performance of the contract:

communities treated by the receiving party with the same level of confidentiality as the party uses to protect its own confidential information, but never with a lesser level of confidentiality than that which is reasonably required.

- 10.4 The receiving party may disclose any confidential information received from the disclosing party only to those of its employees who need this information to perform the services required for the contract. The receiving party undertakes to oblige these employees to observe the same level of secrecy as set forth in this confidentiality clause.
- 10.5 Information for which the receiving party can furnish proof that:
  - a)it was generally known at the time of disclosure or has become general knowledge without violation of this confidentiality clause by the receiving party; or
  - b)it was disclosed to the receiving party by a third party entitled to disclose this information; or c)the receiving party already possessed this information prior to disclosure by the disclosing party; or

d)the receiving party developed it itself, irrespective of disclosure by the disclosing party, sha not be deemed to constitute "confidential information" as defined in this confidentiality clause

- 10.6 All confidential information shall remain the property of the disclosing party. The receiving party hereby agrees to immediately (i) return all confidential information, including all copies party hereby agrees to immediately (i) return all confidential information, including all copies to the disclosing party, and/or (ii) on request by the disclosing party, to destoy all confident information, including all copies, and confirm the destruction of this confidential information the disclosing party in writing, at any time if so requested by the disclosing party but the latest and without special request after termination or expiry of the contract. This does not exhend to include reports and certificates prepared for the client solely for the purpose of fulfilling the obligations under the contract, which shall remain with the client. However, TO Rheinland is entitled to make file copies of such reports, certificates and confidential information that forms the basis for preparing these reports and certificates in order to evidence the correctness of its results and for general documentation purposes required by laws, regulations and the requirements of working procedures of TOV Rheinland.
- 10.7 From the start of the contract and for a period of three years after termination or expiry of the contract, the receiving party shall maintain strict secrecy of all confidential information and shall not disclose this information to any third parties or use it for itself.

### 11. Copyrights and rights of use, publications

- 11.1 TÜV Rheinland shall retain all exclusive copyrights in the reports, expert reports/opinions, test reports/results, results, calculations, presentations etc. prepared by TÜV Rheinland, unless otherwise agreed by the parties in a separate agreement. As the owner of the copyrights, TÜV Rheinland is free to grant others the right to use the work results for individual or all types of use r/tight of use?
- 11.2 The client receives a simple, unlimited, non-transferable, non-sublicensable right of use to the contents of the work results produced within the scope of the contract, unless otherwise agreed by the parties in a separate agreement. The client may only use such reports, expert reports/opinions, test reports/results, results calculations, presentations etc. prepared within the scope of the contract for the contractually agreed purpose.
- 11.3 The transfer of right of use of the generated work results regulated in clause 11.2. of the GTCB is subject to full payment of the remuneration agreed in favour of TÛV Rheinland.
- 11.4 The client may use work results only complete and unshortened. The client may only pass on the work results in full unless TÜV Rheinland has given its prior written consent to the partial passing on of work results
- 11.5 Any publication or duplication of the work results for advertising purposes or any further u the work results beyond the scope regulaed in clause 11.2 needs the prior written appror T/U Rheinland in each individual case.
- 11.6 TÜV Reinland may revoke a once given approval according to clause 11.5 at any time without stating reasons. In this case, the client is obliged to stop the transfer of the work results immediately at his own expense and, as far as possible, to withdraw publications.
- The consent of  $T\bar{U}V$  Rheinland to publication or duplication of the work results does not entitle the client to use the corporate logo, corporate design or test/certification mark of  $T\bar{U}V$

### 12 Liability of TÜV Rheinland

12.1 Irrespective of the legal basis, to the fullest extent permitted by applicable law, in the event of a breach of contractual obligations or tort, the liability of TÜV Rheinland for all damages, losses and reimbursement of expenses caused by TŪV Rheinland, its legal representatives and/or employees shall be limited to: (i) in the case of a contract with a fixed overall fee, three times the overall fee for the entire contract; (ii) in the case of a contract or annually recurring services, the agreed annual fee; (iii) in the case of a contract or annually recurring services, the agreed annual fee; (iii) in the case of a contract or entire the contract of the co

orders, three times of the fee for the individual order under which the damages or losses ha occurred. Notwithstanding the above, in the event that the total and accumulated liabil occurries. recommissioning are above, in the event that the total and accumulated lial calculated according to the foregoing provisions exceeds 2.5 Million Euro or equiva-amount in local currency, the total and accumulated liability of TÜV Rheinland shall be limited to and shall not exceed the said 2.5 Million Euro or equivalent amount in

- 12.2 The limitation of liability according to article 12.1 above shall not apply to damages losses caused by malice, intent or gross negligence on the part of TÜV Rheinland vicarious agents. Such limitation shall not apply to damages for a person's death, pinjury or illness.
- 12.3 In cases involving a fundamental breach of contract, TÜV Rheinland will be liable even w minor negligence is involved. For this purpose, a "fundamental breach" is breach of a man contractual obligation, the performance of which permits the due performance of the cont Any claim for damages for a fundamental breach of contract shall be limited to the amou damages reasonably foreseen as a possible consequence of such breach of contract a time of the breach (reasonably foreseeable damages), unless any of the circumstal described in article 12.2 applies.
- 12.4 TÜV Rheinland shall not be läble for the acts of the personnel made available by the client to support TÜV Rheinland in the performance of its services under the contract, unless such personnel made available is regarded as vicarious agent of TÜV Rheinland IT TÜV Rheinland is not läbte for the acts of the personnel made available by the client under the foregoing provision, the client shall indemnify TÜV Rheinland against any claims made by third parties arising from or in connection with such personnel's acts.
- 12.5 Unless otherwise contractually agreed in writing, TÜV Rheinland shall only be liable under the contract to the client.
- 12.6 The limitation periods for claims for damages shall be based on statutory provisions
- 12.7 None of the provisions of this article 12 changes the burden of proof to the disadvantage of the client

- 13.1When passing on the services provided by TÜV Rheinland or parts thereof to third parties in Greater China or other regions, the client must comply with the respectively applicable regulations of national and international export control tab.
- 13.2The performance of a contract with the client is subject to the proviso that there are no obstacles to performance due to national or international foreign trade legislations or embargos and/or sanctions, in the event of a violation, TDV Pheniand shall be entitled to terminate the contract with immediate effect and the client shall compensate for the losses incured thereof by TDV Reheland.

#### 14. Data protection notice

Data protection notice

TÜV Rheinland processes personal data of the client for the purpose of fulfilling this contract. In addition, TÜV Rheinland also processes the data for other legal purposes in accordance with the relevant legal basis. The personal data of the client will only be disclosed to other natural or legal persons if the legal requirements are met. This also applies to transfers to hird countries. The personal data will be deleted immediately as soon as a corresponding reason for deletion arises. Data subjects may exercise the following rights: right of objection, right of rediffication, right of recessing limitation, right of objection, right of rediffication, right of recessing limitation, right of objection, right of data transferability. In addition, persons concerned by the data processing have the right to reveke their consent at any time with effect for the future, as well as the right to file a complaint with the competent that protection supervisor subtrivity. For truther desting processor, please refer to the respective data protection information. You can contact the Group Data Protection Officer of TüV Rheinland by e-mail at datenschutz@de.tuv.com or by post at the following address: TÜV Rheinland AG, c/o Group Data Protection Officer, Am Grauen Stein, 51105 Cologne, Germany.

#### 15. Test material: transport risk and storage

- 15.1The risk and costs for freight and transport of documents or test material to and from TÜV Rheinland as well as the costs of necessary disposal measures shall be borne by the client.
- 15.2Any destroyed and otherwise worthless test material will be disposed of by TÜV Rheinland for the client at the expense of the client, unless otherwise agreed.
- 15.3Undamaged test material shall be stored by TÜV Rheinland for four (4) weeks after completion of the test. If a longer storage period is desired, TÜV Rheinland charges an appropriate storage fee.
- 15.4After the expiry of the 4 weeks or any longer period agreed upon, the test material will be disposed of by TÜV Rheinland for the client for a fee in accordance with clause 15.2.

- 16.1Notwithstanding clause 3.3 of the GTCB, TÜV Rheinland and the client are entitled to terminate the contract in its entirety or, in the case of services combined in one contract, each of the combined parts of the contract individually and independently of the continuation of the remaining services with six (6) months' notice to the end of the contractually agreed term.
- 16.2For good causes, TÜV Rheinland may consider giving a written notice to the client to terminate the contract which includes but not limited to the following:
- a) the client does not immediately notify TÜV Rheinland of changes in the conditions within the company which are relevant for certification or signs of such changes;
- b) the client misuses the certificate or certification mark or uses it in violation of the contract;
- c) in the event of several consecutive delays in payment (at least three times);
- d) a substantial deterioration of the financial circumstances of the client occurs and as a result the payment claims of TDV Rheinland under the contract are considerably endangered and TDV Rheinland cannot reasonably be expected to continue the contractual relationship.
- 16.3.In the event of termination with written notice by TÜV Rheinland for good cause. TÜVRheinland shall be entitled to a lump-sum claim for damages against the client if the conditions of a claim for damages exist. In this case, the client shall owe 15% of the remuneration to be paid until the end of the fixed contract term as lump-sum compensation. The client reserves the right to prove that there is no damage or a considerably lower damage, TÜV Rheinland reserves the right to prove a considerably higher damage in individual cases.
- 16.4TÜV Rheinland is also entitled to terminate the contract with written notice if the client has not been able to make use of the time windows for auditing /service provision provided by TÜV Rheinland within the scope of a certification procedure and the certificate therefore has to be withdrawn (for example during the performance of monitoring audits). Clause 16.3 applies

### 17. Partial invalidity, written form, place of jurisdiction and dispute resolution

- 17.1 All amendments and supplements must be in writing in order to be effective. This also applies to amendments and supplements to this clause 17.1.
- 17.2 Should one or several of the provisions under the contract and/or these terms and condition be or become ineffective, the contracting parties shall replace the invalid provision with legally valid provision that comes closest to the content of the invalid provision in legal a commercial terms.
- 17.3 Unless otherwise stipulated in the contract, the governing law of the contract and these terms and conditions shall be chosen following the rules as below:
  - a)if TÜV Rheinland in question is legally registered and existing in the People's Republic of China, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of the People's Republic of China.
  - b)if TÜV Rheinland in question is legally registered and existing in Taiwan, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of Taiwan.
- c)if TÜV Rheinland in question is legally registered and existing in Hong Kong, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of Hong Kong.
- 17.4 Any dispute in connection with the contract and these terms and conditions or the execution thereof shall be settled friendly through negotiations. Unless otherwise stipulated in the contract, if no settlement or no agreement in respect of the extension of the negotiation period can be reached within two months of the arising of the dispute, the dispute shall be submitted:
  - a)in the case of TUV Rheinland in question being legally registered and existing in the People's Republic of China, to China international Economic and Trade Arbitration Commission (CIETAC) to be settled by arbitration under the Arbitration Rules of CIETAC in force when the arbitration is submitted. The arbitration shall take place in Beljing, Shanghai, Shenzhen or Chongqing as appropriately chosen by the claiming party.
  - b)in the case of TÜV Rheinland in question being legally registered and existing in Taiwan, to Chinese Arbitration Association Taipel Branch to be arbitrated in accordance with its then current Rules of Arbitration. The arbitration shall take place in Taipei.
  - c)in the case of TÜV Rheinland being legally registered and existing in Hong Kong, to Hong Kong International Arbitration Centre (HKIAC) to be settled by arbitration under the HKIAC Administered Arbitration Rules in force when the Notice of Arbitration is submitted in accordance with these rules. The arbitration shall take place in Hong Kong.
  - The decision of the relevant arbitration tribunal shall be final and binding on both parties. The arbitration fee shall be borne by the losing party.



# Test Report 3220780.

# Sunbeam International GmbH



# Introduction.

This report has been prepared by Paul Waller and relates to the activity detailed below:

Job/Registration	n Details	Client Details
Job number: Job type: Start Date: Test type: Sample ID: Registration: Scheme: Protocol: Scheme Manager:	3220780 Testing Samples Submitted 27/05/2020 Type 10190222 CE 730303 Positive pressure RPE PP123 Nathan Shipley	Sunbeam International GmbH Schumanstr. 12 Würselen 52146 Germany

The report has been approved for issue by T Wicksey - Senior Test Engineer

Approved For Issue	
20/4	
	Issue Date: 17 June 2020

# Objectives.

This is an independent test evaluation to only certain clauses or sub-clauses of the agreed specification in accordance with the following test programme:

BSI COVID-19 filtering face piece technical specification, for COVID-19 masks for use by healthcare workers

# Product Scope.

COVID-19 masks for use by healthcare workers

# Report Summary.

The samples were received on 26 May 2020 and the testing was started on 27 May 2020.

The samples submitted complied with the requirements of the test work conducted.



# Test Samples.

Sample ID	ER Number	Description
1 to 19	10190222	Model: HYGISUN HS0501A FFP2

# Description of Test Samples.

Sample Description

COVID-19 masks for use by healthcare workers:

Model: HYGISUN HS0501A FFP2



# Test Requirements.

Testing in accordance with BSI COVID-19 filtering face piece technical specification Technical testing specification for COVID-19 masks for use by healthcare workers

	19 masks for use by healthcar	e workers	
EN 149:2001+A1:2009 Performance requirement	EN 149:2001+A1:2009 Test method clause	Requirement	Assessment
7.7 Practical performance	Testing shall be done in accordance with 8.4.	During the tests the particle filtering half mask shall be subjectively assessed by the wearer and after the test, comments on the following shall be recorded:  a) head harness comfort; b) security of fastenings; c) field of vision; d) any other comments reported by the wearer on request.	Pass
7.9 Leakage	Testing shall be done in accordance with 8.5.	All samples must achieve All individual exercise results tests shall be not greater than 11 % (for FFP2) and, in addition, all arithmetic means for the total inward leakage shall be not greater than 8 % (for FFP2)	Pass
	Testing shall be done in accordance with 8.11	6% for both PO and NaCl	Pass
	Testing shall be done in accordance with 8.7.	The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1,0 % (by volume).	Pass
	Testing shall be done in accordance with 8.9	The breathing resistances shall meet the requirements of; 30l/min – 0.7mbar (inhale) 95l/min – 2.4mbar (inhale) 160l/min – 3.0mbar (exhale)	Pass
Appendix A - Test Panel Data			
Product Photographs			





# Glossary of Terms.

Pass: Complies. Tested by BSI engineers at BSI laboratories

Pass 1: Complies. Witnessed by BSI engineers in manufacturers laboratory.

Pass 2: Complies. Tests carried out by third party lab; results accepted by BSI.

Pass\*: Report resulted in uncertainty and states that Compliance is more probable than non-compliance.

Fail: Non-compliance. Product does not meet the requirements of this clause.

Fail\*: Report resulted in uncertainty and states that Non-compliance is more probable than compliance.

N/T: Not Tested N/A: Not Applicable AR: As Received

TC: Temperature Conditioned

SW: Simulated Wear FT: Flow Tested

MS: Mechanical strength

MMDF: Manufactures Minimum Design Flow MMDC: Manufactures Minimum Design Condition

# Conditions of Issue.

This Test Report is issued subject to the conditions stated in current issue of 'BSI Terms of Service'. The results contained herein apply only to the particular sample(s) tested and to the specific tests carried out, as detailed in this Test Report. The issuing of this Test Report does not indicate any measure of Approval, Certification, Supervision, Control or Surveillance by BSI of any product. No extract, abridgement or abstraction from a Test Report may be published or used to advertise a product without the written consent of BSI, who reserve the absolute right to agree or reject all or any of the details of any items or publicity for which consent may be sought.

Should you wish to speak with BSI in relation to this report, please contact Customer Services on +44 (0)8450 80 9000.

BSI Kitemark House Maylands Avenue Hemel Hempstead Hertfordshire HP2 4SQ



Opinions and Interpretations expressed herein are outside the scope of our UKAS accreditation.

Unless otherwise stated, any results not obtained from testing in a BSI laboratory are outside the scope of our UKAS accreditation.



# Test Results.

Testing in accordance with BSI COVID-19 filtering face piece technical specification BS EN 149:2001 +A1:2009 Technical testing specification for COVID-19 masks for use by healthcare workers

CLAUSE	REQUIREMENTS	ASSESSMENT
7.7	Practical performance	
	The particle filtering half mask shall undergo practical performance tests under realistic conditions. These general tests serve the purpose of checking the equipment for imperfections that cannot be determined by the tests described elsewhere in this standard.	
	Where practical performance tests show the apparatus has imperfections related to wearer's acceptance, the test house shall provide full details of those parts of the practical performance tests which revealed these imperfections.	
	Test in accordance with clause 8.4 of the standard.	Pass
	Testing in accordance with BSI COVID-19 filtering face piece technical specification, for masks for use by healthcare workers  During the tests the particle filtering half mask shall be subjectively assessed by the wearer and after the test, comments on the following shall be recorded:  a) head harness comfort; b) security of fastenings; c) field of vision; d) any other comments reported by the wearer on request.	

Table A: Practical performance

Toot			Comments			
Test candidate	Sample Head harness Security of comfort fastenings		Field of vision	Any other comments	Assessment	
RF1	1 AR	OK	OK	OK	None	Pass
AH1	2 AR	OK	OK	OK	None	Pass

## 7.9 Leakage

## 7.9.1 Total inward leakage

The laboratory tests shall indicate that the particle filtering half mask can be used by the wearer to protect with high probability against the potential hazard to be expected.

The total inward leakage consists of three components: face seal leakage, exhalation valve leakage (if exhalation valve fitted) and filter penetration.

Test in accordance with clause 8.5 of the standard.

Pass

Testing in accordance with BSI COVID-19 filtering face piece technical specification, for masks for use by healthcare workers

5 **test subjects, masks tested 'As received'**. All individual exercise results tests shall be not greater than 11 % (for FFP2) and, in addition, all arithmetic means for the total inward leakage shall be not greater than 8 % (for FFP2).

Table B: Clause 7.9.1 - Total inward leakage

				Inward Leakage (%)					
Test		Pre test	А	В	С	D	E		
candidate	Sample	condition	Walking	Walking with head side to side	Walking with head up & down	Walking and talking	Walking	Average	Assessment
GR1	3	AR	3.07	3.90	3.05	2.07	3.01	3.02	Pass
BH2	4	AR	4.76	6.77	6.65	6.33	6.29	6.16	Pass
JT1	5	AR	0.44	0.58	0.57	0.44	0.61	0.53	Pass
JS2	6	AR	10.08	0.58	0.68	0.33	0.47	2.43	Pass
BH1	7	AR	3.28	0.83	5.05	3.08	4.64	3.38	Pass



# Test Results. (Continued)

CLAUSE REQUIREMENTS ASSESSMENT

7.9.2 Penetration of filter material

Testing in accordance with BSI COVID-19 filtering face piece technical specification, for masks for use by healthcare workers

3 test samples masks tested 'As received', for NaCl (Sodium Chloride) and PO (Paraffin oil), 3 min test. Testing shall be done in accordance with 8.11. 6% limit for both PO and NaCl

Pass

Pass

Table C: Clause 8.11 - Sodium Chloride penetration test

Sample	Pre-test	Flow through filter (I/min)	Penetration (%)		
number	condition	Flow through filter (I/min)	Limit	Actual	
8	AR			0.330	
9	AR	95	< 6	0.409	
10	AR			0.234	

Table D: Clause 8.11 - Paraffin oil penetration test

rable by stages of the random son policitation tool								
Sample number	Pre-test	Flow through filter (I/min)	Penetration (%)					
	condition	Flow through filter (I/min)	Limit	Actual				
11	AR			1.125				
12	AR	95	< 6	1.202				
13	AR			2.496				

## 7.12 Carbon dioxide content of inhalation air

The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1.0% (by volume).

Test in accordance with clause 8.7 of the standard.

Table E: Clause 8.7 - Carbon Dioxide content of the inhalation air

Sample	Dro tost condition	Dead space CO <sub>2</sub> (%)			
	Pre-test condition	Limit	Measured		
14	AR		0.48		
15	AR	< 1.0	0.50		
16	AR		0.52		



# Test Results. (Continued)

CLAUSE REQUIREMENTS ASSESSMENT

7.16 Breathing resistance

Testing in accordance with BSI COVID-19 filtering face piece technical specification, for masks for use by healthcare workers

3 test samples masks tested 'As received'. Test in accordance with clause 8.9 of the standard.

Pass

The breathing resistances shall meet the requirements of FFP2; 30l/min – 0.7mbar (inhale), 95l/min – 2.4mbar (inhale), 160l/min – 3.0mbar (exhale)

Table F: Clause 8.9 – Breathing resistance. Inhalation resistance at a continuous flow

1481011 014400	Table 1. Gladse 6.7 Breathing resistance. Hindiation resistance at a continuous now							
Sample	Pre-test	Continuous flow	Inhalation resistance (mbar)					
	condition	(I/min)	Limit	Measured				
17	AR			0.42				
18	AR	30	< 0.7	0.47				
19	AR			0.40				
17	AR			1.33				
18	AR	95	< 2.4	1.50				
19	AR			1.26				

Table G: Clause 8.9 – Breathing resistance. Exhalation resistance at a continuous flow, measured in five orientations with the worst case reported

Sample	Pre-test	Continuous flow	Exhalation resistance (mbar)			
	condition	(I/min)	Limit	Measured		
17	AR			2.05		
18	AR	160	< 3.0	2.40		
19	AR			1.98		



# Appendix A. – Test Panel Data

Test		Sov				
Candidate	Length of face	Width of face	Face depth	Width of mouth	Head Circumference	Sex
RF1	104	122	121	55	549	Male
AH1	108	124	130	46	570	Male
GR1	124	145	126	49	590	Male
BH2	124	148	120	51	595	Male
JT1	130	140	118	44	589	Male
JS2	126	142	125	57	575	Male
BH1	120	126	120	58	565	Male

Note: All candidates were clean shaven

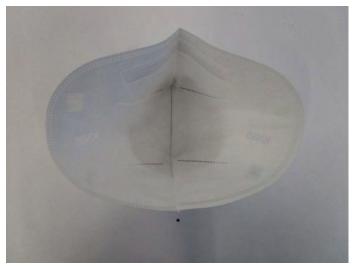
# Product photographs.



Front view



Side View



Inside View
\*\*\*End of Report\*\*\*







# **EU Type Examination Certificate**

This is to certify that: Sunbeam International GmbH

> Schumanstr. 12 Würselen 52146 Germany

Holds Certificate Number: CE 730303

In respect of:

**Model HYGISUN HS0501A Face mask** To technical specification Annex II (EHSR) of the PPE Regulation (EU) 2016/425 PPE for use by healthcare professionals as per Commission recommendation 2020/403

on the basis that BSI carried out the relevant Type Examination procedures under the requirements with the Regulation (EU) 2016/425 of the European Parliament and Council relating to Personal Protective Equipment Regulation (PPE) Annex V (Module B) and meets the relevant health and safety requirements specified in Annex II

For and on behalf of BSI, a Notified Body for the above Regulation (Notified Body Number 2797):

Previous Notified Body: BSI 0086

First Issued: 2020-07-03 Latest Issue: 2020-07-03 Drs. Dave Hagenaars, Managing Director

Effective Date: 2020-07-03 Expiry Date: 2021-07-03

Page: 1 of 3

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# **EU Type Examination Certificate**

No. CE 730303

# **Product Specification**

**Product Name:** Particulate Respirator.

**Product Type:** Particulate filtering half masks for use by Healthcare professionals.

Model: HYGISUN HS0501A.

**Classification:** FFP2 NR un-valved.

**Technical Specification:** Technical specification to satisfy Annex II of the PPE Regulation (EU) 2016/425.

**Product Description:** The respirator is non-reusable, secured to the face of the user by a pair of

elasticated ear straps, and has no exhalation valve. The respirator is FFP2

class, vertical fold flat type.

The respirator listed on this certificate is for use by healthcare workers, first responders and other personnel involved in the efforts to contain the COVID-19

virus and avoid its further spread.

The product covered by this certificate is not approved for industrial applications and

the certificate is only valid as long as EU Commission recommendation sheet

2020/403 remains applicable.

**Product Assessments:** BSI's PPE for Healthcare Professionals 2020/403 – RPE Technical Specification.

First Issued: 2020-07-03 Effective Date: 2020-07-03 Latest Issue: 2020-07-03 Expiry Date: 2021-07-03

Page: 2 of 3

This certificate has been issued by and remains the property of BSI Group The Netherlands B.V., John M. Keynesplein 9, 1066 EP Amsterdam, The Netherlands and should be returned immediately upon request.

To check its validity telephone +31 20 3460780. An electronic certificate can be authenticated online.

# **EU Type Examination Certificate**

No. CE 730303

## **Certificate Administration Details**

Technical File Reference: Sunbeam International GmbH, TCF.01, V0 dated 28/06/2020.

### **Certificate Amendment Record:**

Issue date	Comments	BSI Review No.
July 2020	First issue.	2797:20:3220783

## **Certificate validity**

The Certificate holder is responsible for ensuring that the Notified Body is advised of changes to any aspect of the overall process utilised in the manufacture of the product, failure to do so could invalidate the Certificate in respect of product manufactured following the introduction of such changes.

The validity of the Certificate for the products is also dependent on the maintenance of the EU Conformity to Type based on Internal Production Control plus supervised product checks at random intervals, Annex VII (Module C2) as referenced on BSI issued Certificate CE 730304.

First Issued: 2020-07-03 Effective Date: 2020-07-03 Latest Issue: 2020-07-03 Expiry Date: 2021-07-03

Page: 3 of 3

This certificate has been issued by and remains the property of BSI Group The Netherlands B.V., John M. Keynesplein 9, 1066 EP Amsterdam, The Netherlands and should be returned immediately upon request.

To check its validity telephone +31 20 3460780. An electronic certificate can be authenticated online.







# Conformity to Type based on Internal Production Control plus supervised product checks at random intervals

This is to certify that: Sunbeam International GmbH

> Schumanstr. 12 Würselen 52146 Germany

Holds Certificate Number: CE 730304

In respect of:

For the manufacture of particulate respirators to technical specification to satisfy Annex II of the PPE **Regulation (EU) 2016/425.** 

on the basis that BSI carried out the supervised production checks at random intervals under the requirements with the Regulation (EU) 2016/425 of the European Parliament and Council relating to Personal Protective Equipment Regulation (PPE) Annex VII (Module C2)

For and on behalf of BSI, a Notified Body for the above Regulation (Notified Body Number 2797):

Previous Notified Body: BSI 0086

First Issued: 2020-07-03 Latest Issue: 2020-07-03 Drs. Dave Hagenaars, Managing Director

Effective Date: 2020-07-03 Expiry Date: 2021-07-03

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# Conformity to Type based on Internal Production Control plus supervised product checks at random intervals

No. CE 730304

# **Product manufactured by:**

Hunan Dreaming Cloud E-Commerce CO., Ltd Block 1, Smart Tech Park, 57# Huangxing Avenue, Changsha Economic and Technological Development Zone, Changsha, Hunan, China

## **Product details**

The respiratory protective device covered by the scope of this Module C2 Certificate and the Technical Specification to which the product is manufactured are as follows:

**Product type:** Particulate filtering half masks for use by Healthcare professionals.

Model and classifications: HYGISUN HS0501A FFP2 NR

**Technical Specification:** Technical specification to satisfy Annex II of the PPE Regulation (EU) 2016/425.

BSI's PPE for Healthcare Professionals 2020/403 - RPE Technical Specification.

First Issued: 2020-07-03 Effective Date: 2020-07-03 Latest Issue: 2020-07-03 Expiry Date: 2021-07-03

Page: 2 of 3

# Conformity to Type based on Internal Production Control plus supervised product checks at random intervals

No. CE 730304

## **Certificate Administration Details:**

# Certificate Amendment Record and BSI internal Review relating to this Certificate

Issue date	Comments	BSI Review No.
July 2020	First issue.	2797:20:3220784

# **Certificate validity**

The Certificate holder is responsible for ensuring that the Notified Body is advised of changes to any aspects of the overall quality system utilized in the manufacture of the products, failure to do so could invalidate the Certificate in respect of product manufactured after the introduction of such changes.

First Issued: 2020-07-03 Effective Date: 2020-07-03 Latest Issue: 2020-07-03 Expiry Date: 2021-07-03

Page: 3 of 3



Bestimmung des Abscheidegrades von neuen Masken

Prüfbericht: HYBETA\_NM\_0346

Datum der Prüfung: 27.07.2020

# Auftraggeber

Sunbeam International GmbH

Daniel Cmelak

Schumannstraße 12

52146 Würselen

# Prüfgegenstand

**HYGISUN** 

Ref. HSO501A

FFP2 Mask

EN 149:2001 + A1:2009

CE 2797

# **Auftragnehmer**

HYBETA GmbH

Nevinghoff 20

48147 Münster

# Messumfang

Es liegen fünf neue Masken vor.





## Bestimmung des Abscheidungsgrades

Prüfbericht: HYBETA\_NM\_0346

Zur Bestimmung des Abscheidungsgrades werden die Masken in eine Messvorrichtung eingespannt und je Maske drei Partikelmessungen á einer Minute durchgeführt. Betrachtet werden hierbei die Partikelgrößen 0,3 μm, 0,5 μm, 1,0 μm, 3,0 μm und 5,0 μm.

Größere Partikel können Tröpfchen repräsentieren, die als Infektionsquelle bei Tröpfcheninfektionen eine entscheidende Rolle spielen. Die kleinen Partikel sind relevant, wenn Aerosole als Infektionsquelle in Frage kommen. Eine eindeutige Definition der Größe von relevanten Tröpfchen und Aerosolen liegt nicht vor.

Bei der Partikelprüfung wird der Abscheidegrad der Masken für die oben aufgeführten Partikelgrößen ermittelt und gegen die in der Rohluft vorhandene Konzentration verglichen. Für die Bewertung der Ergebnisse gibt es keine normative oder andere regulative Grundlage und kann somit nur subjektiv erfolgen. Die Werte wurden in Anlehnung an die DIN EN 149:2009-08 Tabelle 1 gewählt. Dort ist der maximale Durchlass des

- ·bei FFP2-Masken mit 6 % (=94 % Abscheidegrad Filtermedium)
- ·bei FFP3-Masken mit 1 % (=99 % Abscheidegrad Filtermedium)

definiert. KN95-Masken werden mit einem Abscheidegrad von 95 % des Filtermediums bewertet.

Die Bewertung der Ergebnisse liegt allein beim Auftraggeber. Eine Bewertung eines Ausatemventils wird nicht vorgenommen.

Die Prüfung des Abscheidegrades von luftgetragenen Partikeln ist lediglich eine <u>orientierende Messung</u> und <u>ersetzt keine Prüfung der Masken nach</u> <u>DIN EN 149</u>.

Mittelwert der Rohluft								
Partikel [μm]								
Maske	0,3	0,5	1	3	5			
Rohluft	908.701	404.296	196.362	1.872	219			

	Mittelwerte der Masken										
	Partikel [µm]						Abscheidegrad [%]				
Maske	0,3	0,5	1	3	5		0,3	0,5	1	3	5
N1	65.257	5.092	257	0	0		92,8%	98,7%	99,9%	100,0%	100,0%
N2	70.493	4.454	208	0	0		92,2%	98,9%	99,9%	100,0%	100,0%
N3	82.946	4.706	211	0	0		90,9%	98,8%	99,9%	100,0%	100,0%
N4	73.281	3.874	238	0	0		91,9%	99,0%	99,9%	100,0%	100,0%
N5	65.353	3.397	139	0	0		92,8%	99,2%	99,9%	100,0%	100,0%



# Rohdaten Abscheidegrad

# Trademient HYBETA MM 03/6

	90	Name of the case of	Probe-	Volumen	50.2	4.2	5.2		
Messgegenstand	Zeit	Messpunkt	nahmezeit(s)	(FT3)	0.3	0.5	1.0	3.0	5.0
rohluft	27.07.2020 14:06	6	60	1.00	814265	418700	206764	2179	331
rohluft	27.07.2020 14:07	6	60	1.00	803527	407939	202122	1989	209
rohluft	27.07.2020 14:08	6	60	1.00	862703	455790	227171	2337	201
n1	27.07.2020 14:09	7	60	1.00	62804	4991	258	0	0
n1	27.07.2020 14:10	7	60	1.00	64414	4917	255	0	0
n1	27.07.2020 14:11	7	60	1.00	68554	5367	257	0	0
n2	27.07.2020 14:13	8	60	1.00	64105	4282	222	1	0
n2	27.07.2020 14:14	8	60	1.00	69867	4341	200	0	0
n2	27.07.2020 14:15	8	60	1.00	77507	4740	202	0	0
n3	27.07.2020 14:16	9	60	1.00	82058	4821	212	0	0
n3	27.07.2020 14:17	9	60	1.00	82124	4555	216	0	0
n3	27.07.2020 14:18	9	60	1.00	84656	4743	205	0	0
rohluft	27.07.2020 14:20	10	60	1.00	984953	405505	195319	1880	253
rohluft	27.07.2020 14:21	10	60	1.00	993760	415693	199958	1879	227
rohluft	27.07.2020 14:22	10	60	1.00	983745	409910	196663	1841	177
n4	27.07.2020 14:23	11	60	1.00	73053	3792	240	0	0
n4	27.07.2020 14:24	. 11	60	1.00	73285	3873	225	0	0
n4	27.07.2020 14:25	11	60	1.00	73506	3957	249	0	0
n5	27.07.2020 14:27	12	60	1.00	65178	3346	156	0	0
n5	27.07.2020 14:28	12	60	1.00	65271	3369	124	0	0
n5	27.07.2020 14:29	12	60	1.00	65611	3477	136	0	0
rohluft	27.07.2020 14:30	13	60	1.00	879762	338728	159920	1371	175
rohluft	27.07.2020 14:31	13	60	1.00	936114	399278	192779	1758	200
rohluft	27.07.2020 14:32	13	60	1.00	919476	387118	186565	1614	200