

TECHNICAL ASSESSMENT REPORT

REPORT DATE / NO: 12.05.2020 / 2163-KKD-674

Manufacturer: TENGFEI TECHNOLOGY CO., LTD.

Address: No. 111, Tongqiu Road, Zhangpu Town, Kunshan City, Jiangsu Province, China

This report is for the, given above, manufacturer prepared according to the test results obtained from Jiangsu Guojian Testing Technology Co., Ltd. laboratory accredited by CNAS (China National Accreditation Service), signatory to ILAC MRA, with number L10118 for the product identified below, received on 29.04.2020 with Serial Id (2020) WSZ FHL NO. 3441 based on EN 149: 2001 + A1: 2009 standard and the technical file dated 09 May 2020 Version 01 provided by the manufacturer. The sampling of the product is conducted under our supervision for testing from the manufacturing site of the client.

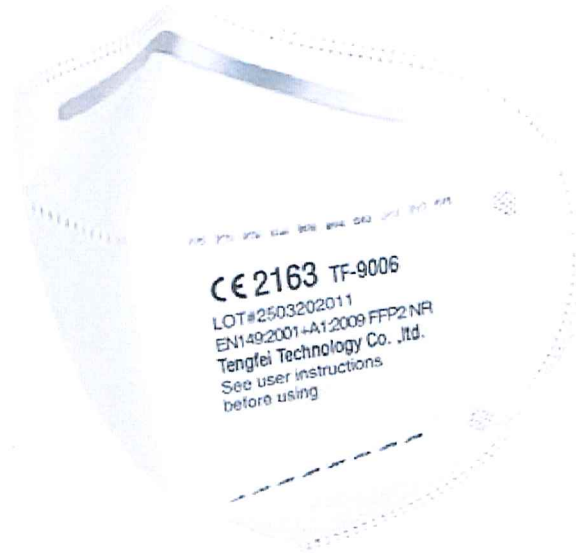
The technical file of the manufacturer, and risk evaluation against the essential health safety requirements and the test report evaluated for their relation with Essential Requirements of Personal Protective Equipment Regulation and found to be appropriate.

This report is an annex and an integral part of the EU Type Examination Certificate issued to the manufacturer. The test results and issued certificate belongs only to the tested model. The technical report consists of a total of 6 pages.

Product Description: Particle Filtering Half Mask

Classification: FFP2 NR

Model: TF-9006



**ESSENTIAL HEALTH and SAFETY REQUIREMENTS GIVEN IN EUROPEAN UNION REGULATION
EU 2016/425 CORRESPONDING RISKS FOR THE PRODUCT**

1.1. Design principles

1.1.1. Ergonomics

PPE must be so designed and manufactured that in the foreseeable conditions of use for which it is intended the user can perform the risk related activity normally whilst enjoying appropriate protection of the highest possible level. The test results with human subjects did not report any problem with the ergonomics of the product.

1.1.2. Levels and classes of protection

1.1.2.1. Highest level of protection possible

The optimum level of protection to be taken into account in the design is that beyond which the constraints by the wearing of the PPE would prevent its effective use during the period of exposure to the risk or normal performance of the activity.

1.1.2.2. Classes of protection appropriate to different levels of risk

Where differing foreseeable conditions of use are such that several levels of the same risk can be distinguished, appropriate classes of protection must be taken into account in the design of the PPE.

1.2. Innocuousness of PPE

1.2.1. Absence of risks and other inherent nuisance factors

PPE must be so designed and manufactured as to preclude risks and other nuisance factors under foreseeable conditions of use. The manufacturer declares in his technical file that according to the results of risk analysis and the material properties they use in the manufacturing, the product has no hazardous content for health.

1.2.1.1. Suitable constituent materials

The materials of which the PPE is made, including any of their possible decomposition products, must not adversely affect the health or safety of users. The material selection is processed in the technical manufacturing process and documented.

1.2.1.2. Satisfactory surface condition of all PPE parts in contact with the user

Any part of the PPE that is in contact or is liable to come into contact with the user when the PPE is worn must be free of rough surfaces, sharp edges, sharp points and the like which could cause excessive irritation or injuries is evaluated and reported in the test report.

1.2.1.3. Maximum permissible user impediment

Any impediment caused by PPE to movements to be made, postures to be adopted and sensory perception must be minimized; nor must PPE cause movements which endanger the user or other persons.

1.3 Comfort and effectiveness

1.3.1. Adaptation of PPE to user morphology

PPE must be designed and manufactured in such a way as to facilitate its correct positioning on the user and to remain in place for the foreseeable period of use, bearing in mind ambient factors, the actions to be carried out and the postures to be adopted. For this purpose, it must be possible to adapt the PPE to fit the morphology of the user by all appropriate means, such as adequate adjustment and attachment systems or the provision of an adequate range of sizes.

1.3.2. Lightness and design strength

PPE must be as light as possible without prejudicing design strength and efficiency.

Apart from the specific additional requirements which they must satisfy in order to provide adequate protection against the risks in question (see 3), PPE must be capable of withstanding the effects of ambient phenomena inherent under the foreseeable conditions of use

1.4. Information supplied by the manufacturer

The notes that must be drawn up by the former and supplied when PPE is placed on the market must contain all relevant information on:

- a) In addition to the name and address of the manufacturer and/or his authorized representative established in the Community
- b) Storage, use, cleaning, maintenance, servicing and disinfection. cleaning, maintenance or disinfectant protection recommended by manufacturers must have no adverse effect on PPE or users when applied in accordance with the relevant instructions;
- c) Performance as recorded during technical tests to check the levels or classes of protection provided by the PPE in question;
- d) Suitable PPE accessories and the characteristics of appropriate spare parts;
- e) The classes of protection appropriate to different levels of risk and the corresponding limits of use;
- f) The obsolescence deadline or period of obsolescence of PPE or certain of its components;
- g) The type of packaging suitable for transport;
- h) The significance of any markings (see 2.12)
- i) Where appropriate the references of the Directives applied in accordance with Article 5(6) (b);
- j) The name, address and identification number of the notified body involved in the design stage of the PPE

These notes, which must be precise and comprehensible, must be provided at least in the official language(s) of the member state of destination

2. ADDITIONAL REQUIREMENTS COMMON TO SEVERAL CLASSES OR TYPES OF PPE

2.1. PPE incorporating adjustment systems

If PPE incorporates adjustment systems, the latter must be designed and manufactured so that, after adjustment, they do not become undone unintentionally in the foreseeable conditions of use.

2.3. PPE for the face, eyes and respiratory system

Any restriction of the user's face, eyes, field of vision or respiratory system by the PPE shall be minimised.

The screens for those types of PPE must have a degree of optical neutrality that is compatible with the degree of precision and the duration of the activities of the user.

If necessary, such PPE must be treated or provided with means to prevent misting-up.

Models of PPE intended for users requiring sight correction must be compatible with the wearing of spectacles or contact lenses.

2.4. PPE subject to ageing

If it is known that the design performance of new PPE may be significantly affected by ageing, the month and year of manufacture and/or, if possible, the month and year of obsolescence must be indelibly and unambiguously marked on each item of PPE placed on the market and on its packaging.

If the manufacturer is unable to give an undertaking with regard to the useful life of the PPE, his instructions must provide all the information necessary to enable the purchaser or user to establish a reasonable obsolescence month and year, taking into account the quality level of the model and the effective conditions of storage, use, cleaning, servicing and maintenance.

Where appreciable and rapid deterioration in PPE performance is likely to be caused by ageing resulting from the periodic use of a cleaning process recommended by the manufacturer, the latter must, if possible, affix a marking to each item of PPE placed on the market indicating the maximum number of cleaning operations that may be carried out before the equipment needs to be inspected or discarded. Where such a marking is not affixed, the manufacturer must give that information in his instructions. The product is for single use and tested with simulated wearing conditioning.

2.6. PPE for use in potentially explosive atmospheres

PPE intended for use in potentially explosive atmospheres must be designed and manufactured in such a way that it cannot be the source of an electric, electrostatic or impact-induced arc or spark likely to cause an explosive mixture to ignite.

2.8. PPE for intervention in very dangerous situations

The instructions supplied by the manufacturer with PPE for intervention in very dangerous situations must include, in particular, data intended for competent, trained persons who are qualified to interpret them and ensure their application by the user.

The instructions must also describe the procedure to be adopted in order to verify that PPE is correctly adjusted and functional when worn by the user.

Where PPE incorporates an alarm which is activated in the absence of the level of protection normally provided, the alarm must be designed and placed so that it can be perceived by the user in the foreseeable conditions of use.

2.9. PPE incorporating components which can be adjusted or removed by the user

Where PPE incorporates components which can be attached, adjusted or removed by the user for replacement purposes, such components must be designed and manufactured so that they can be easily attached, adjusted and removed without tools.

2.12. PPE bearing one or more identification or recognition marks directly or indirectly relating to health and safety

The identification or recognition marks directly or indirectly relating to health and safety affixed to these types or classes of must preferably take the form of harmonized pictograms or ideograms and must remain perfectly legible throughout the foreseeable useful life of the PPE. In addition, these marks must be complete, precise and comprehensible so as to prevent any misinterpretation; in particular, where such marks incorporate words or sentences, the latter must appear in the official language(s) of the Member State where the equipment is to be used.

If PPE (or a PPE component) is too small to allow all or part of the necessary marking to be affixed, the relevant information must be mentioned on the packing and in the manufacturer's notes.

3. ADDITIONAL REQUIREMENTS SPECIFIC TO PARTICULAR RISKS

3.10.1. Respiratory protection

PPE intended for the protection of the respiratory system must make it possible to supply the user with breathable air when exposed to a polluted atmosphere and/or an atmosphere having an inadequate oxygen concentration.

The breathable air supplied to the user by PPE must be obtained by appropriate means, for example after filtration of the polluted air through PPE or by supply from an external unpolluted source.

The constituent materials and other components of those types of PPE must be chosen or designed and incorporated so as to ensure appropriate user respiration and respiratory hygiene for the period of wear concerned under the foreseeable conditions of use.

The leak-tightness of the facepiece and the pressure drop on inspiration and, in the case of the filtering devices, purification capacity must keep contaminant penetration from a polluted atmosphere low enough not to be prejudicial to the health or hygiene of the user.

The PPE must bear details of the specific characteristics of the equipment which, in conjunction with the instructions, enable a trained and qualified user to employ the PPE correctly.

In the case of filtering equipment, the manufacturer's instructions must also indicate the time limit for the storage of new filters kept in their original packaging.

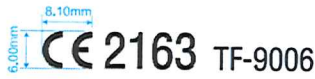


Technical Assessment of EN 149: 2001 + A1: 2009 Standard and other Standards it refers to, Clauses Corresponding to the
(EU) 2016/425 Directive

Conforming to EN 149:2001 + A1:2009 Standard Requirements																																					
Article 5	<p>Classification : Particle Filtering Half Mask</p> <p>The mask subject to evaluation based on the test results and technical file provided by the manufacturer is classified as; Filtering Efficiency and maximum Total Inward Leakage: Classified as FFP2 Mask is classified for single shift use, NR</p>																																				
Article 7.4	<p>Packing: Particle filtering half masks are packaged to protect them from contamination before use and with cardboard boxes to prevent mechanical damage. The packaging design and the product is considered to withstand the foreseeable conditions of use based on the visual inspection results given in the test report.</p>																																				
Article 7.5	<p>Material: Materials used in particle filtering half masks, according to the simulated wearing treatment and temperature conditioning results: It is understood it withstands handling and wear over the period for which the particle filtering half mask is designed to be used, it suffered mechanical failure of the facepiece or straps, any material from the filter media released by the air flow through the filter has not constitute a hazard or nuisance for the wearer. The manufacturer declares that the materials used in manufacturing of the mask does not have an adverse affect to the health and safety of users.</p> <p>Based on the test results, the masks did not collapse when subject to simulated wearing and temarature conditioning. No nuisance situation is reported during the practical performance tests by human subjects.</p>																																				
Article 7.6	<p>Cleaning and Disinfection: Particle filtering half mask is not designed to be as re-usable. No cleaning or disinfection procedure provided by the manufacturer.</p>																																				
Article 7.7	<p>Practical Performance :</p> <p>The test report indicates that the human subjects did not face any difficulty in performing the exercises while they were weared by the sample masks, in walking test or work simulation tests. The wearers did not report any failure by means of head harness / straps/ earloops comfort, security of fastenings and field of vision. Also no imperfections reported during total inward tests about the comfort, field of vision and fastening issues.</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Assessed Elements</th> <th style="text-align: center;">Positive</th> <th style="text-align: center;">Negative</th> <th style="text-align: center;">Requirements in accordance with EN 149:2001 + A1:2009 and Result</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">2.Head harness comfort</td> <td style="text-align: center;">2</td> <td style="text-align: center;">0</td> <td rowspan="3" style="text-align: center;">Positive results are obtained from the test subjects No imperfections</td> </tr> <tr> <td style="text-align: center;">3.Security of fastenings</td> <td style="text-align: center;">2</td> <td style="text-align: center;">0</td> </tr> <tr> <td style="text-align: center;">5.Field of vision</td> <td style="text-align: center;">2</td> <td style="text-align: center;">0</td> </tr> </tbody> </table> <p>Conditioning : (A.R.) As Received, original</p>	Assessed Elements	Positive	Negative	Requirements in accordance with EN 149:2001 + A1:2009 and Result	2.Head harness comfort	2	0	Positive results are obtained from the test subjects No imperfections	3.Security of fastenings	2	0	5.Field of vision	2	0																						
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5.Field of vision	2	0																																			
Article 7.8	<p>Finish of Parts: Particle filtering half masks, which are likely to come into contact with the user, do not have sharp edges and do not contain burrs.</p>																																				
Article 7.9.1	<p>Total Inward Leakage:</p> <p>The Total Inward Lekage test is conducted by 10 individual in an aerosol chamber with a walking band, and samples are taken during the conduction of the exercises defined in the standard. The samples used in the test are subjected to the conditioning required in the standard as Temperature conditioning and as received. The face dimensions of the subjects are also reported. The measurement details for each subject and for each excersize are available in the test report.</p> <p>It was reported that; All 50 exercise measurement results are smaller or equal to 11%, results varies between 1,7 % and 4,8 % All 10 individual's arithmetic mean is smaller or equal to 8%, results varies between 2,5 % and 4,2 %</p> <p style="text-align: center;">According to the reported results, the product meets the limits for FFP1 and FFP2 classification.</p>																																				
Article 7.9.2	<p>Penetration of filter material: Sodium Chloride Testing</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Condition</th> <th style="text-align: center;">No. of Sample</th> <th style="text-align: center;">Sodium Chloride Testing 95 L/min max (%)</th> <th style="text-align: center;">Requirements in accordance with EN 149:2001 + A1:2009</th> <th style="text-align: center;">Result</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">(A.R.)</td> <td style="text-align: center;">-</td> <td style="text-align: center;">0,1</td> <td rowspan="3" style="text-align: center;">FFP1 ≤ 20 %</td> <td rowspan="9" style="text-align: center;">Filtering half masks fulfill the requirements of the standard EN EN 149:2001 + A1:2009 given in 7.9.2 in range of the FFP1, FFP2 and FFP3 classes.</td> </tr> <tr> <td style="text-align: center;">(A.R.)</td> <td style="text-align: center;">-</td> <td style="text-align: center;">0,1</td> </tr> <tr> <td style="text-align: center;">(A.R.)</td> <td style="text-align: center;">-</td> <td style="text-align: center;">0,1</td> </tr> <tr> <td style="text-align: center;">(S.W.)</td> <td style="text-align: center;">-</td> <td style="text-align: center;">0,1</td> <td rowspan="3" style="text-align: center;">FFP2 ≤ 6 %</td> </tr> <tr> <td style="text-align: center;">(S.W.)</td> <td style="text-align: center;">-</td> <td style="text-align: center;">0,1</td> </tr> <tr> <td style="text-align: center;">(S.W.)</td> <td style="text-align: center;">-</td> <td style="text-align: center;">0,1</td> </tr> <tr> <td style="text-align: center;">(M.S. T.C.)</td> <td style="text-align: center;">-</td> <td style="text-align: center;">0,2</td> <td rowspan="3" style="text-align: center;">FFP3 ≤ 1 %</td> </tr> <tr> <td style="text-align: center;">(M.S. T.C.)</td> <td style="text-align: center;">-</td> <td style="text-align: center;">0,3</td> </tr> <tr> <td style="text-align: center;">(M.S. T.C.)</td> <td style="text-align: center;">-</td> <td style="text-align: center;">0,2</td> </tr> </tbody> </table> <p>Conditioning : (M.S.) Mechanical Strength (T.C.) Temperature Conditioning (A.R.) As Received, original (S.W.) Simulated wearing treatment</p> <p style="text-align: right;">95 L/min = 1,6 dm³.sm⁻¹</p>	Condition	No. of Sample	Sodium Chloride Testing 95 L/min max (%)	Requirements in accordance with EN 149:2001 + A1:2009	Result	(A.R.)	-	0,1	FFP1 ≤ 20 %	Filtering half masks fulfill the requirements of the standard EN EN 149:2001 + A1:2009 given in 7.9.2 in range of the FFP1, FFP2 and FFP3 classes.	(A.R.)	-	0,1	(A.R.)	-	0,1	(S.W.)	-	0,1	FFP2 ≤ 6 %	(S.W.)	-	0,1	(S.W.)	-	0,1	(M.S. T.C.)	-	0,2	FFP3 ≤ 1 %	(M.S. T.C.)	-	0,3	(M.S. T.C.)	-	0,2
Condition	No. of Sample	Sodium Chloride Testing 95 L/min max (%)	Requirements in accordance with EN 149:2001 + A1:2009	Result																																	
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(M.S. T.C.)	-	0,2																																			



Article 7.9.2	Penetration of filter material: : Paraffin Oil Testing					
	Condition	No. of Sample	Paraffin Oil Testing 95 L/min max (%)	Requirements in accordance with EN 149:2001 + A1:2009	Result	
	(A.R.)	-	2,0	FFP1 ≤ 20 % FFP2 ≤ 6 % FFP3 ≤ 1 %	Filtering half masks fulfill the requirements of the standard EN EN 149:2001 + A1:2009 given in 7.9.2 in range of the FFP1, FFP2 classes.	
	(A.R.)	-	2,1			
	(A.R.)	-	2,0			
	(S.W.)	-	2,0			
	(S.W.)	-	2,1			
	(S.W.)	-	1,9			
	(M.S. T.C.)	-	4,9			
	(M.S. T.C.)	-	5,1			
	(M.S. T.C.)	-	4,9			
Conditioning : (M.S.) Mechanical Strength (T.C.) Temperature Conditioning (A.R.) As Received, original (S.W.) Simulated wearing treatment						
Article 7.10	Compatibility with skin: In Practical Performance report, the likelihood of mask materials in contact with the skin causing irritation or other adverse effect on health was not reported.					
Article 7.11	Flammability :					
	Condition	No. of Sample	Visual inspection	Requirements in accordance with EN 149:2001 + A1:2009	Result	
	(A.R.)	-	0,1 s	Filtering half mask shall not burn or not continue to burn for more than 5 s after removal from the flame	Passed Filtering half masks fulfill requirements of the standard	
	(A.R.)	-	0,1 s			
	(T.C.)	-	0,1 s			
	(T.C.)	-	0,1 s			
Conditioning : (A.R.) As Received, original (T.C.) Temperature Conditioning						
Article 7.12	Carbon dioxide content of the inhalation air:					
	Condition	No. of Sample	CO ₂ content of the inhalation air [%] by volume	An average CO ₂ content of the inhalation air	Requirements in accordance with EN 149:2001 + A1:2009	Result
	(A.R.)	-	0,08	0,08 [%]	CO ₂ content of the inhalation air shall not exceed an average of 1,0% by volume	Passed Filtering half masks fulfil requirements of the standard
	(A.R.)	-	-			
	(A.R.)	-	-			
Conditioning : (A.R.) As Received, original						
Article 7.13	Head harness: In Practical Performance and TIL test reports no adverse effects have been reported for donning and remove of the mask also the results of these tests indicates that the ear loops / head harness are capable of holding the mask firmly enough.					
Article 7.14	Field of vision: In Practical Performance report, no adverse effects were reported for the field of vision availability when the mask is worn.					
Article 7.15	Exhalation Valve(s): The model under inspection have no valves.					
Article 7.16	Breathing Resistance: Inhalation The overall evaluation in the figures gathered for 9 different samples 3 as received, 3 with temperature conditioning and 3 simulated wearing treatment conditioned complies with the limits given in the standard for FFP1, FFP2 and FFP3 classes. This is valid for inhalation results for 30 L/min, 95 L/min and exhalation at 160 L/min. The measurement details for each single mask tested are available in the test report. Passed.					



Article 7.17	Clogging: This test is not applied to Particle Filtering Half Mask which is not reusable. <i>(For single shift use devices, the clogging test is optional test. For re-usable devices test is mandatory.)</i>
Article 7.18	Demountable Parts: There are no demountable parts on the product.
Article 8	Testing: All tests conducted according to Clause 8 of this standard is available in the test report and are evaluated in this report for qualification and classification of the mask.
Article 9	<p>Marking – Packaging: Necessary markings are available on the product package (box). The manufacturer and its trademark is clearly visible. The type of the mask and the classification including the status of re-usability, the reference to EN 149:2001+A1:2009 standard, the end date of shelf life, using and storage instructions and pictograms and CE mark are available on the product package. The above evaluation is based on the technical document for packaging and marking, for box design. Verified on the Annex 9.1 of the technical file.</p> <p>The technical documentation for mask design (drawing) also evaluated for marking requirements, drawing TF-9006 version A1. Face Mask. The mask template (drawing) indicates that the mask will carry information about the manufacturer, Type of mask, the reference to EN 149+A1:2009 standard and classification including the re-usability of the mask. The manufacturer also printed CE mark with our Notified Body number. The mask do not have sub-assemblies. Even the tested sample by the laboratory do not carry necessary marking information, as stated in the technical documentation, the manufacturer shall follow marking technical marking instructions for serial production. TF-9006 drawing exists in the technical file of the manufacturer as Annex 6 of technical file.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>CE 2163 TF-9006</p> <p>LOT#2503202011 EN149:2001+A1:2009 FFP2 NR Tengfei Technology Co. ,Ltd. See user instructions before using</p> </div> <div style="text-align: center;">  <p>CE</p> </div> </div> <div style="display: flex; justify-content: center; align-items: center; margin-top: 10px;">  </div>
Article 10	Information to be supplied by the manufacturer: In each of the smallest commercially available packaging of the product, implementation (installation instructions) pre-use controls, warning and usage limitations, storage and meanings of symbols / pictograms are defined. User instruction document in the technical file found to be appropriate, Annex 8. The manufacturer shall include this documented user information text in every smallest commercially available package.

PREPARED BY	APPROVED BY
<p>Osman CAMCI PPE Expert</p> 	<p>Suat KAÇMAZ Director</p>  

TENGFEI TECHNOLOGY CO., LTD

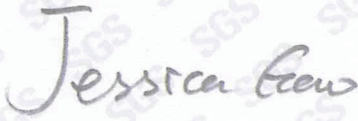
NO.111 TONGQIU ROAD, ZHANGPU TOWN, KUNSHAN CITY, JIANGSU PROVINCE, CHINA

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

Sample Description : EFFECTIVE PARTICLE FILTERING MASK
Style/ Item No. : TF-003
Buyer : COMAZO
Supplier : TENGFEI TECHNOLOGY CO., LTD
Manufacturer : TENGFEI TECHNOLOGY CO., LTD
Country of Origin : CHINA
Country of Destination : GERMANY
Sample Receiving Date : APR.02,2020
Testing Period : APR.02,2020 TO MAY.26,2020
Test Requested : SELECTED TEST(S) AS REQUESTED BY APPLICANT
Test Result(s) : PLEASE REFER TO THE FOLLOWING PAGE(S)

Remark: Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

SGS-CSTC Standards
Technical Services (Qingdao)
Co., Ltd.



Jessica Gao
Approved Signatory

scan to see the report



QDHL2004002636MD

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www.sgsgroup.com.cn
e sgs.china@sgs.com

Test Results :

S.No.	Test item		Unit	Technical requirements	Test result	Single item decision
1	Visual inspection	Packaging	----	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.	Packaging withstands mechanical damage and contamination	Qualified
		Material	----	Materials used shall be suitable to with stand handling and wear over the period for which the particle filtering half mask is designed to be used.	Materials withstand handling and wear	
2	Practical performance	Head Harness Comfort	----	Head harness should be comfort.	Sample 1 has the feeling of comfortable wearing Sample 2 has the feeling of comfortable wearing	Qualified
		Security of fastenings	----	Fastenings are safe and reliable	Sample 1: All fastenings are firm. Sample 2: All fastenings are firm.	
		Field of vision	----	Field of vision is acceptable	Sample 1: Having a wider visual field Sample 2: Having a wider visual field	
3	Finish of parts		----	Parts of the device likely to come into contact with the wearer shall have no sharp edges or burrs.	Parts of the device have no sharp edges and burrs.	Qualified

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S.No	Test item	Unit	Technical requirements	Test result		Single item decision
4	Compatibility with skin	-----	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.	A.R.	5 pcs all don't cause irritation	Qualified
				T.C.	5 pcs all don't cause irritation	
5	Flammability	-----	When tested, the particle filtering half mask shall not burn or not to continue to burn for more than 5s after removal from the flame.	A.R.	The Sample is burning. Burning time:0.1s	Qualified
				T.C.	The Sample is burning. Burning time:0.1s	
6	Carbon dioxide content of the inhalation air	-----	≤1.0% (by volume)	Sample 1	0.0901%	Qualified
				Sample 2	0.0902%	
				Sample 3	0.0903%	
				Report value	0.09%	

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S.No	Test item	Unit	Technical requirements	Test result	Single item decision
7	Material	----	After undergoing S.W., none of the particle filtering half masks shall have suffered mechanical failure of the facepiece or straps.	Sample 1: neither facepiece nor straps have mechanical failure	Qualified
				Sample 2: neither facepiece nor straps have mechanical failure	
Sample 3: neither facepiece nor straps have mechanical failure					
		----	After undergoing S.W. and T.C., none of the particle filtering half masks shall not collapse.	Sample 1: no collapse	Qualified
				Sample 2: no collapse	
				Sample 3: no collapse	
8	Head hardness	----	The head hardness 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 or sufficiently robust to hold the particle filtering half mask firmly in position.	A.R. All of 5 pieces particle filtering half mask meet the requirements	Qualified
				T.C. All of 5 pieces particle filtering half mask meet the requirements	
9	Field of vision	----	The field of vision is acceptable if determined so in practical performance tests.	The two samples both have a wider visual field	Qualified



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S.No	Test item		Unit	Technical requirements	Test result				Single item decision
					A.R.	S.W.	M.S+ T.C.		
10	Penetration of filter material	Sodium chloride	-----	≤6%	0.1%	0.2%	0.1%	Qualified	
					0.2%	0.2%	0.1%		
					0.4%	0.5%	0.4%		
	Paraffin oil	-----	≤6%	1.4%	1.3%	1.3%	Qualified		
				1.4%	1.4%	1.3%			
				3.8%	3.9%	3.8%			

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S.No.	Test item	Unit	Technical Requirements	Test result						Single item decision	
				Exercises	Facing directly ahead	Facing vertically upwards	Facing vertically downwards	Lying on the left side	Lying on the right side		
11	Breathing resistance	Inhalation 30 L/Min	≤0.7	A.R.	0.5	0.6	0.5	0.6	0.5	Qualified	
					0.6	0.5	0.6	0.5	0.6		
					0.5	0.6	0.5	0.6	0.5		
				S.W.	0.6	0.5	0.6	0.5	0.6		
					0.5	0.5	0.5	0.5	0.5		
					0.6	0.6	0.6	0.6	0.5		
		T.C.	0.5	0.5	0.5	0.6	0.5				
			0.5	0.6	0.5	0.6	0.5				
			0.5	0.6	0.6	0.5	0.6				
		Inhalation 95 L/Min	≤2.4	A.R.	1.9	1.8	1.9	1.9	1.9		Qualified
					1.8	1.8	1.7	1.7	1.8		
					1.8	1.7	1.8	1.7	1.8		
	S.W.			1.7	1.8	1.7	1.7	1.8			
				1.7	1.8	1.7	1.8	1.8			
				1.7	1.7	1.7	1.7	1.8			
	T.C.	1.7	1.7	1.8	1.8	1.8					
		1.7	1.7	1.7	1.8	1.8					
		1.7	1.8	1.7	1.8	1.7					
	Exhalation 160 L/min	≤3.0	A.R.	2.5	2.6	2.6	2.6	2.5	Qualified		
				2.5	2.6	2.6	2.6	2.5			
				2.5	2.5	2.6	2.6	2.5			
			S.W.	2.6	2.5	2.5	2.6	2.6			
				2.5	2.5	2.6	2.6	2.6			
				2.5	2.5	2.5	2.5	2.5			
T.C.			2.6	2.6	2.6	2.6	2.5				
			2.5	2.5	2.5	2.6	2.6				
			2.5	2.5	2.6	2.6	2.6				

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

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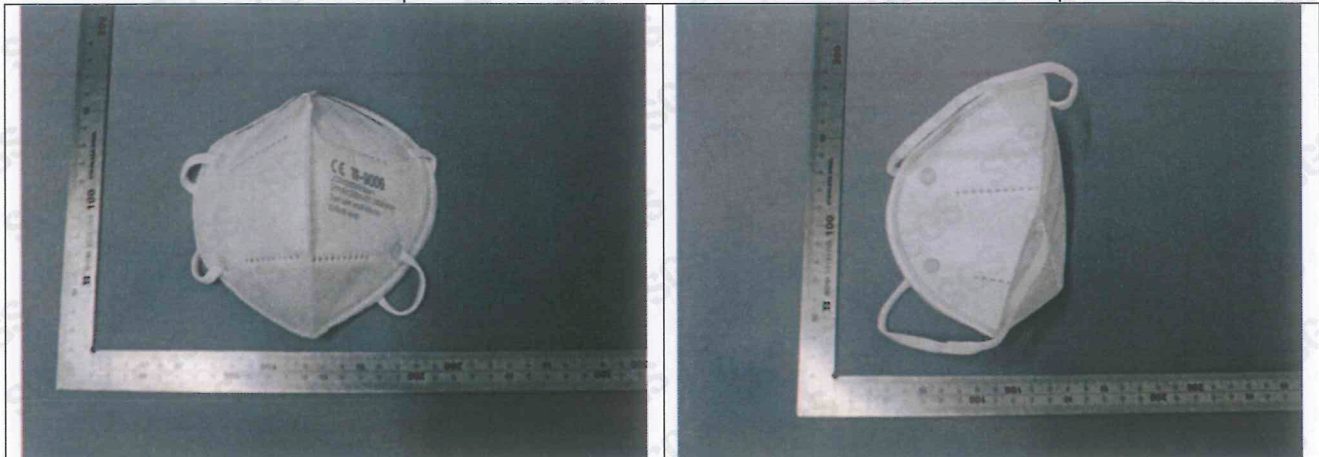
S.No	Test item	Unit	Techn ical Require ments	Test result							Single item decision	
				Exer cises	E1 (%)	E2 (%)	E3 (%)	E4 (%)	E5 (%)	TIL (%)		
12	Total inward leakage	----	At least 46 out of The 50 individual Exercise results shall be not greater than 11%; and in addition,at least 8 out of the 10 individual wearer arithmetic means for the total inward leakage shall be not greater than 8%	A. R.	1#	5.2	6.2	6.1	6.0	5.6	5.8	Qualified
					2#	5.2	5.6	5.8	5.8	5.3	5.5	
					3#	5.1	5.7	5.8	5.7	5.3	5.5	
					4#	5.0	5.7	5.8	5.8	5.4	5.5	
					5#	4.8	5.5	5.6	5.9	5.2	5.4	
				T. C.	6#	5.6	5.9	6.4	6.1	5.6	5.9	
					7#	4.7	5.2	5.6	5.4	4.9	5.2	
					8#	5.8	6.7	6.8	6.4	6.0	6.3	
					9#	5.3	5.8	6.2	6.1	5.4	5.8	
					10#	5.5	6.6	6.4	6.7	6.0	6.2	

Remark: The test was carried out by external laboratory assessed as competent (Jiangsu Guojian Testing Technology Co., Ltd.).

Sample Photo:

Received sample

Received sample



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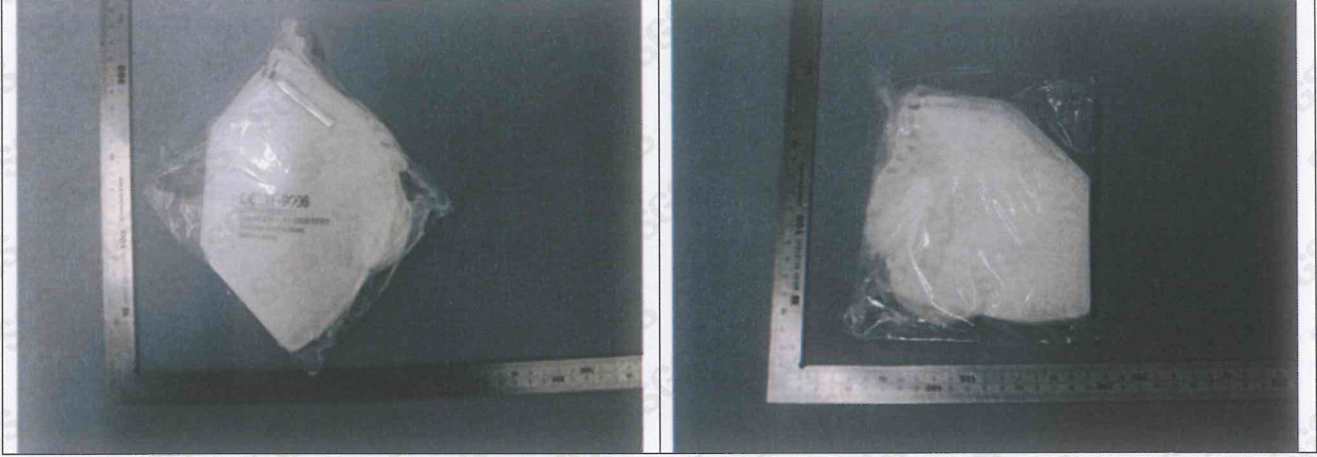
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Test Report No.: 244278244a 001

Page 1 of 10

Client: ILB HELIOS

Contact Information: Chamerstrasse 175,6300 Zug/Switzerland

Contact Person: Franz Portmann

Sample Description As Declared :

No. Of Sample	80pcs
Product Description	Effective Particle Filtering Mask-Earloop
Material	50% Melt-blown fabric 34% Non-woven fabric 16% Hot-air cotton
Colour	White
End Use	Civil protection
Lot No./ Batch Code	2020100902
Manufacture	Tengfei Technology Co., ltd
Buyer	ILB Helios
Country of Origin	Kunshan, Jiangsu, China
Sales Destination(country)	Switzerland
Test Type	Full test
Product Type	Single shift use only
Claimed Classification	FFP2

Sample obtaining method: Sending by customer

Sample Receiving date: 2020-11-10

Delivery condition: Apparent good, Samples tested as received

Test Period: 2020-11-10 to 2020-12-01

Test Specification:

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

Test Result

Please refer to next page

For and on behalf of

TÜV Rheinland (Shanghai) Co., Ltd.



2020-12-02 Candy Jiang/Section Manager

Date

Name/Position

Test result is drawn according to the kind and extent of tests performed.

This test report relates to the a. m. 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.

Summary of test results

Clause	Item	<u>M001</u>
7.3	Visual inspection	M
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	M
10	Information to be supplied by the manufacturer	M

Note : M = Meet Performance Standard
 N/R = Not Request
 N/A = Not Applicable

F = Below Performance Standard
 * = No Submitted Information
 M# = Refer to result page

Material list

Material No.	Material	Color/Pattern	Location
M001	Whole Product	White	Effective Particle Filtering Mask-Earloop

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.	Pass
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
7.5	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
	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 relevant 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 relevant 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 $\leq 11\%$
 At least 8 out of the 10 individual wearer arithmetic means for the total inward leakage $\leq 8\%$

M001									
Subject	Condition	Specimen No.	Leakage (%)					Walk	Mean
			Walk	Head Side/side	Head Up/down	Talk			
BM	As received	1	7.068	8.765	9.428	6.081	5.978	7.464	
ACH		2	6.243	7.174	8.263	8.032	5.473	7.037	
ML		3	5.148	6.296	7.336	7.586	5.647	6.403	
LLC		4	6.467	6.815	7.146	8.067	6.003	6.900	
DG		5	7.004	6.513	7.263	8.335	6.367	7.096	
SG	After conditioning	6	7.617	6.488	7.269	8.211	6.567	7.230	
YL		7	6.143	5.296	6.836	7.994	6.267	6.507	
KQ		8	6.049	6.113	7.253	7.335	5.943	6.539	
KXH		9	7.201	5.436	7.631	7.397	6.147	6.762	
YY		10	6.271	6.053	8.169	8.736	6.141	7.074	
Conclusion		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
Afterflame time (s)	As received	1	1.2	Pass
		2	0.9	
	After conditioning	3	1.1	
		4	1.1	

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				Conclusion
		Specimen 1	Specimen 2	Specimen 3	Mean	
Content (%)	As received	0.56	0.58	0.58	0.57	Pass

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 (l/min)		Resistance (mbar)														
As received		Specimen 1					Specimen 2					Specimen 3				
		A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
Inhalation	30	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	95	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1
Exhalation	160	2.5	2.5	2.5	2.5	2.5	2.3	2.3	2.3	2.3	2.3	2.1	2.1	2.1	2.1	2.1
Simulated wearing treatment		Specimen 4					Specimen 5					Specimen 6				
		A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
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
	95	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.5
Exhalation	160	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.6	2.6	2.6	2.6	2.6
Temperature conditioned		Specimen 7					Specimen 8					Specimen 9				
		A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
Inhalation	30	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	95	1.1	1.1	1.1	1.1	1.1	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Exhalation	160	2.2	2.2	2.2	2.2	2.2	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.4
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

7. Penetration Of Filter Material

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

Requirement : FFP2: ≤6%

M001			
Aerosol	Condition	Specimen No.	Penetration (%)
Sodium chloride Penetration	As received	1	0.015
		2	0.001
		3	0.002
	Simulated wearing treatment	4	0.001
		5	0.001
		6	0.001
	Mechanical strength + Temperature conditioned @ Exposure test of 120mg	7	0.052
		8	0.018
		9	0.056
Paraffin oil Penetration	As received	10	0.149
		11	0.097
		12	0.088
	Simulated wearing treatment	13	0.122
		14	0.143
		15	0.295
	Mechanical strength + Temperature conditioned @ Exposure test of 120mg	16	1.622
		17	1.292
		18	0.924
Conclusion	Pass		

8. Marking		
Test method		: EN 149:2001+A1:2009 Clause 9
M001		
9.1 Packaging	The following information shall be clearly and durably marked on the smallest commercially available packaging or legible through it if the packaging is transparent.	
	9.1.1 The name, trademark or other means of identification of the manufacturer or supplier.	Present
	9.1.2 Type-identifying marking.	Present
	9.1.3 Classification The appropriate class (FFP1, FFP2 or FFP3) followed by a single space and then: "NR" if the particle filtering half mask is limited to single shift use only. Example: FFP3 NR, or "R" if the particle filtering half mask is re-usable. Example: FFP2 R D.	Present
	9.1.4 The number and year of publication of this European Standard.	Present
	9.1.5 At least the year of end of shelf life. The end of shelf life may be informed by a pictogram as shown in Figure 12a, where yyyy/mm indicates the year and month.	Present
	9.1.6 The sentence 'see information supplied by the manufacturer', at least in the official language(s) of the country of destination, or by using the pictogram as shown in Figure 12b.	Present
	9.1.7 The manufacturer's recommended conditions of storage (at least the temperature and humidity) or equivalent pictogram, as shown in Figures 12c and 12d.	Present
	9.1.8 The packaging of those particle filtering half masks passing the dolomite clogging test shall be additionally marked with the letter "D". ID This letter shall follow the classification marking preceded by a single space.	N/A
9.2 Particle filtering half mask	Particle filtering half masks complying with this European Standard shall be clearly and durably marked with the following:	
	9.2.1 The name, trademark or other means of identification of the manufacturer or supplier.	Present
	9.2.2 Type-identifying marking.	Present
	9.2.3 The number and year of publication of this European Standard.	Present
	9.2.4 Classification The appropriate class (FFP1, FFP2 or FFP3) followed by a single space and then: "NR" if the particle filtering half mask is limited to single shift use only. Example: FFP3 NR, or "R" if the particle filtering half mask is re-usable. Example: FFP2 R D.	Present
	9.2.5 If appropriate the letter D (dolomite) in accordance with clogging performance. This letter shall follow the classification marking preceded by a single space.	N/A
	9.2.6 Sub-assemblies and components with considerable bearing on safety shall be marked so that they can be identified.	N/A

9. Information to be supplied by the manufacturer

Test method : EN 149:2001+A1:2009 Clause 10

M001		
10.1	Information supplied by the manufacturer shall accompany every smallest commercial available package	Present
10.2	Information supplied by the manufacturer shall be at least in the official language(s) of the country of destination	Present
10.3	The information supplied by the manufacturer shall contain all information necessary for trained and qualified persons on	
	- application/limitations	Present
	- the meaning of any colour coding	N/A
	- checks prior to use	Present
	- donning, fitting	Present
	- use	Present
	- maintenance (e.g. cleaning, disinfecting), if applicable	N/A
	- storage	Present
	- the meaning of any symbols/pictograms used of the equipment	Present
10.4	The information shall be clear and comprehensible. If helpful, illustrations, part numbers, marking shall be added	Present
10.5	Warning shall be given against problems likely to be encountered, for example:	
	- fit of particle filtering half mask (check prior to use)	Present
	- it is unlikely that the requirements for leakage will be achieved if facial hair passes under the face seal	Present
	- air quality (contaminants, oxygen deficiency)	Present
	- use of equipment in explosive atmosphere	Present
10.6	The information shall provide recommendations as to when the particle filtering half mask shall be discarded	Present
10.7	For devices marked "NR", a warning shall be given that the particle filtering half mask shall not be used for more than on shift	Present

Photo:



END -

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

1. Scope

1.1 These General Terms and Conditions of Business of TÜV Rheinland in Greater China ("GTBC") shall be made between the client and one or more members 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 hereby declares that it is 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.

(i) 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.

1.3 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 client shall form part of the contract even if TÜV Rheinland does not explicitly object to them.

1.4 In the context of an ongoing business relationship with the client, this GTBC shall also apply to future contracts with the client without TÜV Rheinland having to refer to them separately in each individual case.

2. Quotations

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.

3. Coming into effect and duration of contracts

3.1 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, or 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), TÜV Rheinland is, in its sole discretion, entitled to accept the order by given written notice of such acceptance (including notice 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

4.1 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 concluded.

4.3 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.

4.4 On execution of the work there shall be no simultaneous assumption of any guarantee of the correctness (proper quality) and working order of either tested or examined parts nor of the installation as a whole and its upstream and/or downstream processes, operations, use and application in accordance with regulations, nor of the systems on which the installation is based. In particular, TÜV Rheinland shall assume no responsibility for the 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.

4.5 In the case of inspection work, TÜV Rheinland shall not be responsible for the accuracy or checking of the safety program 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, TÜV Rheinland shall be entitled to additional remuneration for resulting additional expense.

4.7 The 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 applies, if the client passes on work results - in full or in extracts - to third parties in accordance with clause 11.4.

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 provided by the client. They shall only 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 the period of performance not caused by TÜV Rheinland.

5.4 TÜV 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.

5.5 The performance of TÜV Rheinland is delayed due to unforeseeable 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.

6. The client's obligation to cooperate

6.1 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, standards, 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 contractor without prior notice; and ii) withdraw the issued testing report/certificates if any.

6.3 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 client. Even where a fixed or maximum price is agreed, TÜV Rheinland shall be entitled to charge extra fees for such additional expense.

7. Prices

7.1 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.

8. Payment terms

8.1 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 TÜV Rheinland as indicated on the invoice, by 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.

8.4 Should the 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 contract.

8.5 The provisions set forth in article 8.4 shall also apply in cases involving returned checks, 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 weeks of receipt of the invoice.

8.7 TÜV Rheinland shall be entitled to demand appropriate advance payments.

8.8 TÜV Rheinland shall be entitled to raise its fees at the beginning of a month if overheads and purchase prices have increased. In the event that the client notifies 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). If the rise in fees is not notified, TÜV Rheinland remains under 5% per contractual year; the client shall not have the right to terminate the contract. If the rise in fees exceeds 5% per contractual year, the client shall be entitled to terminate the contract by the end of the period of notice of changes in fees. If 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. Acceptance of work

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 immediately.

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 fundamental breach of contract by TÜV Rheinland;

9.3 The client is not entitled to refuse acceptance due to insignificant breach of contract by TÜV Rheinland.

9.4 If acceptance is excluded according to the nature of the work performance of TÜV Rheinland, the completion of the work shall be deemed to have taken place when the client was unable to make use of the time windows provided for within the scope of a certification procedure for auditing/verification by TÜV Rheinland and the certificate is issued. In the event of a performance of surveillance audits, TÜV Rheinland is entitled to immediately charge a lump-sum compensation of 10% of the order amount as compensation for expenses. The client must immediately prove that the TÜV Rheinland has incurred no damage whatsoever or only a considerably lower damage than the above lump sum.

9.5 Insofar as the client has undertaken in the contract to accept services, TÜV 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 TÜV Rheinland has incurred no damage whatsoever or only a considerably lower damage than the above mentioned lump sum.

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 "disclosing party") hands over, transfers or otherwise discloses to the other party (the "receiving party"), and the confidential information created during performance of work by TÜV Rheinland, including product testing data, defects, conformity to the technical standard and related reports. Confidential information also includes paper copies and electronic copies of such information. Confidential information is expressly not the data and know-how collected, compiled or otherwise obtained by TÜV Rheinland (not-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 transmitted by e-mail. If confidential information is disclosed orally, the receiving party shall be appropriately informed in advance and the disclosing party shall confirm in writing the confidentiality nature of the information within five working days of oral disclosure. Where the disclosing party fails to do so within the stipulated period, the receiving party shall not be bound by 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 TÜV Rheinland is required to pass on confidential information, inspection reports or documentation to the government authorities, judicial court, accreditation bodies or third parties that are involved in the performance of the contract;

c) must be treated by the receiving party with the same level of confidentiality as the disclosing party uses to protect its own confidential information and 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 obligate 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;

b) 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, shall 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, to the disclosing party; (ii) on request by the disclosing party, to destroy all confidential information, including all copies, and confirm the destruction of this confidential information to the disclosing party in writing; at any time it is so requested by the disclosing party but at the latest and without special request after termination or expiry of the contract. This does not extend to include reports and certificates prepared for the client solely for the purposes of the contract under the contract, which shall remain with the client. However, TÜV Rheinland is entitled to make file copies of such reports, certificates and confidential information that forms the basis of its own certificates 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 TÜV 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 ("right of use").

11.2 The client receives a simple, unlimited, non-transferable, non-sublicenseable 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 GTBC is subject to full payment of the remuneration agreed in favour of TÜV 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 use of the work results beyond the scope regulated in clause 11.2 needs the prior written approval of TÜV Rheinland in each individual case.

11.6 TÜV Rheinland 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.

11.7 The consent of TÜV Rheinland to publication or duplication of the work results does not entitle the client to use the corporate logo, corporate design or certification mark of TÜV Rheinland.

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 contract by TÜV Rheinland, the liability of TÜV Rheinland for all damages, losses and reimbursement of expenses caused by TÜV Rheinland, its legal representatives and/or employees shall be limited to: (i) in the case of a contract with a fixed fee, three times the overall fee for the entire contract; (ii) in the case of a contract for annually recurring services, the agreed annual fee; (iii) in the case of a contract expressly charged on a time and materials basis, a maximum of 20,000 Euro or equivalent amount of local currency; and (iv) in the case of a framework agreement that provides for the possibility of placing individual orders, three

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 liability calculated according to the foregoing provisions exceeds 2.5 Million Euro or equivalent amount in local currency, the total and accumulated liability of TÜV Rheinland shall be only limited to and shall not exceed 2.5 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 losses caused by malice, intent or gross negligence on the part of TÜV Rheinland or its vicarious agents. Such limitation shall not apply to damages for a person's death, physical injury or illness.

12.2 In cases involving a fundamental breach of contract, TÜV Rheinland will be liable even where minor negligence is involved. For this purpose, a "fundamental breach" is a breach of a material contractual obligation, the performance of which permits the due performance of the contract. Any claim for damages for a fundamental breach of contract shall be limited to the amount of damages reasonably foreseen as a possible consequence of such breach of contract at the time of the breach (reasonably foreseeable damages), unless any of the circumstances described in article 12.2 applies. TÜV Rheinland shall not be liable 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. If TÜV Rheinland is not liable 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.

12.3 Unless otherwise contractually agreed in writing, TÜV Rheinland shall only be liable under the contract to the client.

12.4 The limitation periods for claims for damages shall be based on statutory provisions.

12.6 None of the provisions of this article 12 changes the burden of proof to the disadvantage of the client.

13. Export control

13.1 When 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 law.

13.2 The 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 regulations or embargos and/or sanctions. In the event of a violation, TÜV Rheinland shall be entitled to terminate the contract with immediate effect and the client shall compensate for the losses incurred thereof by TÜV Rheinland.

14. 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 provisions. 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 third countries. The personal data will be deleted immediately as soon as a compelling reason for deletion arises. Data subjects may exercise the following rights: right of information, right of rectification, right of deletion, right of processing restriction, right of objection, right of data transferability. If persons concerned by the data processing have the right to revoke their consent at any time with effect for the future, as well as the right to file a complaint with the competent data protection supervisory authority. For further details on the processing of personal data by TÜV Rheinland as the person responsible or contract processor, please refer to the respective data protection information. You can contact the Group Data Protection Officer of TÜV Rheinland by e-mail at datschutz@tdv.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

15.1 The 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.

15.2 Any 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.

15.3 Undamaged 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.

15.4 After 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. Termination of the contract

16.1 Notwithstanding clause 3.3 of the GTBC, 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.

16.2 For good cause, TÜV Rheinland may consider giving a written notice to the client to terminate the contract which includes but is 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 misses 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 TÜV Rheinland under the contract are considerably endangered and TÜV 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, TÜV Rheinland 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.

16.4 TÜV 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/inspection in the case of 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 accordingly.

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 conditions be or become ineffective, the contracting parties shall replace the invalid provision with a legally valid provision that comes closest to the content of the invalid provision in legal and commercial terms. 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 TÜV 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 Beijing, 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 Taipei 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 in question 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.