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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.

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

scan to see the report

QDHL2004002636MD

Jessica Gao
Approved Signatory

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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	Qualified
					Sample 2 has the feeling of comfortable wearing	
		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
					The Sample is burning. Burning time:0.1s	
				T.C.	The Sample is burning. Burning time:0.1s	
					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
10	Penetration of filter material	Sodium chloride	-----	≤6%	A.R.	0.1%	0.2%	0.1%	Qualified
					S.W.	0.2%	0.2%	0.1%	
					M.S+ T.C.	0.4%	0.5%	0.4%	
		Paraffin oil	-----	≤6%	A.R.	1.4%	1.3%	1.3%	Qualified
					S.W.	1.4%	1.4%	1.3%	
					M.S+ T.C.	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	Mbar	≤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	
		Inhalation95 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	

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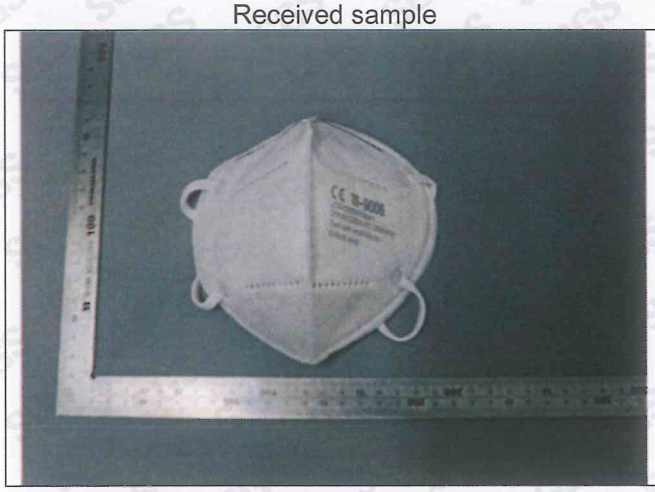
S.No	Test item	Unit	Technical Requirements	Test result							Single item decision
				Exercises		E1 (%)	E2 (%)	E3 (%)	E4 (%)	E5 (%)	TIL (%)	
12	Total inward leakage	-----	At least 46 out of The 50 individual Exercise results shall be not greater than 11%; and in addition,at least 8 out of the 10 individual 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



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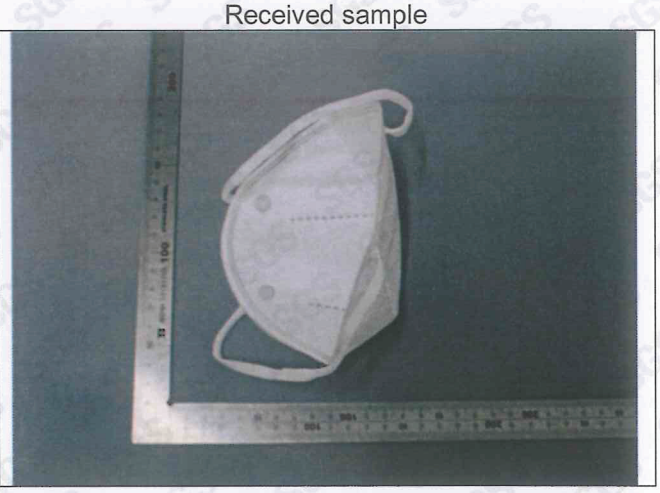

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