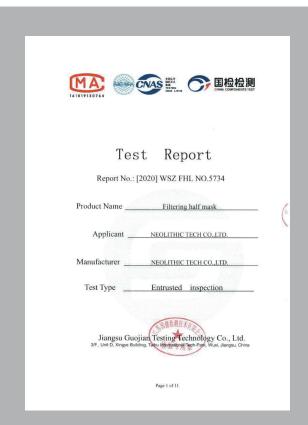
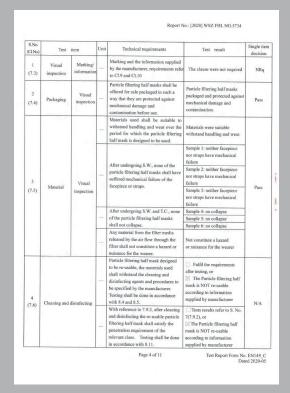
# Test Report Baumusterprüfung





sample description:	DOC-TNC	
Fest item particulars:	DOC-111C	
Type of use	(	- Gharing half-mark
ype of use		particle filtering half mask
Classes of devices		
Exhalation valve(s)		23 1112
nhalation valve(s)		
Designed to protect against both solid &liquid aer		
Possible test case verdicts:	losois A les L No	
	NW CN	
Test case does not be required to the test object		
Test case does not apply to the test object	25, 25,	
Test object does meet the requirement		
Test object does not meet the requirement	: F (Fail)	
The test results presented in this report relate only		
This report shall not be reproduced, except in fu		
assurance that parts of a report are not taken out o		al of the issuing Laboratory can pro
Determination of the test results includes cons	of context.	
Determination of the test results includes consmethods.	of context. sideration of measurement u	ncertainty from the test equipment
Determination of the test results includes cons	of context. sideration of measurement u	ncertainty from the test equipment
Determination of the test results includes consmethods.	of context. sideration of measurement u t is used as the decimal separ	ncertainty from the test equipment
Determination of the test results includes consmethods.  Throughout this report a   comma /   point	of context.  sideration of measurement ut t is used as the decimal separereport:	ncertainty from the test equipment actor.
Determination of the test results includes cons methods.  Throughout this report a comma / \omega point  Environmental condition of the testing in this r	of context.  sideration of measurement ut t is used as the decimal separereport:	ncertainty from the test equipment actor.
Determination of the test results includes considerable.  Includes this report a comma / Zo point  Environmental condition of the testing in this r  O) Unless otherwise specified, the ambient temperar  (b) T.C. Temperature conditioned:	of context.  sideration of measurement ut t is used as the decimal separereport:	ncertainty from the test equipment actor.





Inverkehrbringer

Institut für Biochemie und Bioenergetik Armin Leuze Dipl. · Ing. Chemie-(FH) · 72419 Neufra

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ENs.	Test	ÁRRI	Unii	Technical requirements		Tost in	thur		flingle firm decision
		tiest harress		Third factories should be complise.	Sample comfort			ing of	i i
		comilor		These tactions started the contains.	Nample comfort			ing of	
15	Practical	Security		F	Sample firm	: All fa	stenings	are	
(7.7)	performance	astenings		Fastenings are safe and reliable	Sample 2: All fastenings are firm				Pasy
		Field of		Field of vision is acceptable	Sample 1: I saving a wider				
		1986		Field of vision is acceptable	Sample visual fi		ig it Wide	br	
6 (7.8)	Finish of parts	Visual inspection	=	Parts of the device likely to come time contact with the searer shall have no sharp edges or burns.	Parts of	the devi		no	Pani
					A.R. <sup>1)</sup>	0.1%	0.1%	0.1%	
		Sodium	-	<15 A	S.W.0	0.1%	0.2%	0.1%	Pres
					M.S+	0.2%	0.2%	6.3%	
					AR.	0.1%	0.1%	0.2%	
	Leakage	Paraffin oil	-	<15	(8.W.D	0.2%	0.1%	12%	Pass:
7.9.2)	Penemation of filter material				M.S+ J.C.	0.8%	0.7%	0.7%	
		Prox. sene Note: The penetra Maximum p	tration	ation over a time of 30s, beginning 3 thin is during exposure less reported; of the litter of the particle filtering half or time of sodium chloride aerosol test 35 Lin time of parallis oil aerosol test 95 Linits is	ask shall i	ncet (he	requirer	nents b	elow: P3:  %

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S.No.	Yest item	Vair	Fechnical requirements		Test result	Bingle item			
			fragerians that may come into contact	A.R.	pes all don t cause initiation				
7.10)	Companionity wan skin		linown to be likely to cause irritation of they other adverse effect to health.	A.C.	pes all don't Cause inflation	Pier			
	Flammability		When tessed, the particle filtering hair	A.H.	The Sample is burning. Burning time.0. Is The Sample is burning.				
em.	Plammability	to burn for inore than 5s after removal	from the ftanw.	no burn for inore than 5s after removal		four the ftance.		The Sample is burning- literating base 0.1s	Pase
					The Sample is burning. Burning image, it. Is				
			The karbon dioxide contem of the	Sant	pie 1 .9.6399%	1			
10	Carbon dioxide coment of	Ŀ	fulialation sir (dead space) thall not succed in average of 1.0 % (by	ß am	ule 2 0.643056	Page			
10,121	the inhabition air	П	Volume). Remark: 3 half masks (\$1, \$2 and	Sam	ple 3 11:64,0%	1			
			§3) A.R. lesied.	8740	10ge 0.64%				
11	Head turness		The head namess shall be designed so that the particle liftering half mask can be donned and removed easily. The head namess shall be adjustable	AR	All of 5 pieces particle fillering hal mask meet the	Fior			
(7.13)	( United 1117 a.)		or self-adjusting and shall be sufficiently tobust to hold the particle filtering half mask furnity in position	те	All of 5 pieces particle filtering hal mack most flu tequipments	1			
(7.14)	Field of Vision:	-	The field of vision is acceptable it determined so in practical performance lests.		o samples both have a	her			

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S.Na (C1Na)	Test	(mm)	Cipil	Technical requirements	Test (excli	Single item decime
				A particle filtering half mask may have one in faure exhalation valve(s), which shall function correctly in all extensions.	No inchalation leave(s)	
1.3 (7.15)	Exhalation	Visual		If an exhalation valve is provided it shall be protected against or be resistant to first and incohamical damage, and may be shrouded or may include any other device that may be secessary for the particle filtering half mask to comply with 7.0.	No exparation valve(s)	NA
		Flow conditioning		Exhalation valve(s), if fitted, shall continue to operate sorrectly after a continuous exhalation flow of 300 l/mm over a period of 30 s.	No exhalation valve(s)	
		Strength of attachment of exhalation valve housing		When the exhalation valve housing is attached to the faceblank, it shall withstand axially a tensile force of 10 N applied for 10 s.	No exhalation valve(s)	
14 (7.17)	Breathing	gging— g resistance & of filter materia		Optional for single shift use devices, mandatory for re-usable devices. Tested by Cl. 7.17.1/2/3.	☐ Tests results refer to Table C&D, or ☑ Tests not requested for single shift use face mask	NA
15 (7.18)	Demou	niable parts	H	All demountable parts (if fitted) shall be readily connected and secured, where possible by hand.	No demountable parts	507.6
_			_			

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	-Total Inward Leakage

S.No. (CLNo.)	Test item	Unit	Technical requirements <sup>1)</sup>			Total	nud				Single item decision
				Exercises	(%)	(%)	1567	E# (%)	fi5 (%)	(%)	
					1,07	3.4	1.0	162	6.0	54.	
			At least 46 out of the 50		130	1.0	21	190	1.6	130	
			results shall be not	A.B.	1.1	4.1	19	1.5	1)4	4.2	
	Leakage		greater fran 5%; And in addition, at least		1,2	17.	1/2	1,0	1.2	1.5	1
M (7.5.1)	Treat		8 out of the 10		1.2	1.0	16	1.6	1.2	13	Pass
	leakage		individual wearer srithmetic means for the		70.61	1.2	1.5	1.3	0.8	1.1	
			total inward leakage shall be not greater than		0.0	306	1.9	333	1,0	131	
			2%.	TE	12	1.8	1.8	1.8	1.4	1.6	
					15	20	3.1	201	13	13	
					0.8	1.0	1.6	136	1.2	1.4	

Note: I is just also on of the 50 judividual exercise results (i.e. I0 subjects x 5 exercises) for total [neural leakage shall be hot greater flats 25 % for FFF7 | 1% for FFF7 | 5% for FFF7 | 1% for FFF2 5% for

Test Subject No.	Length of face (1000)	Width of face (mm)	Depth of face (tim)	Width of mouth (imm)
( )	120	130	108	.59
ž	122	(40	105	85
,	119	160	139	.55
£.	(12	122	100	83
5:	110	136	100	.00
6	113	119	110	30
1	1)2	123	110	39
*	101	130	100	20.
0	114	139	1.50	9.5
10	120	135	125	50

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							Tast	flore											
S.No CLNo)	Test	item	Unde	Technical requirements <sup>(1)</sup>	Exercises	Facing directly ahead	Facing vertically upwards	Facing vertically downwards	Lying on the left	Lying on the righ:	Single item decision								
						0.6	0.7	0.6	0.6	9.7									
					A.R.	0.7	0.6	0.7	0,7	0.6									
						0.6	0.6	0.7	0.6	Re	1								
				≤ <u>1.0</u>		0.6	0.6	0.6	9.7	0.7	1								
		Selections Selections			S.W.	0.7	0.7	0.6	0.0	9.6	Pare								
		and and				0.6	0.6	0.7	0.3	5.2									
						0.6	0.6	0.7	0.7	0.7									
					T.C.	0.7	0.6	0.6	0.7	6.7									
						0.6	0.6	0.6	0.9	0.7									
			1			2.0	2.1	1.9	9.9	1.0									
					A.R.	1.8	1.9	1.9	2.0	2.0									
													1	2.0	2.0	2.1	1/9	1.9	1
				1 1		1.9	2.0	2.0	2.0	1.9	1								
17	Breathing	hitchinos 951/200	miliar	≤3.0	S.W.	1.9	1.9	2.0	239	1.9	- Fast								
(7.16)	minmer	951/200				1.9	1.9	1.8	9,9	1.9	1								
						1.9	1.8	1.8	1.7:	8.1	1								
					T.C.	1.8	1.8	1.9	1.9	1.9									
						1.8	1.8	1.8	1.9	1.9	_								
						2.5	2.4	2.4	2/4	24									
					A.R.	2.5	2.4	2.4	24	2.4	1								

Note 1: Limitation may need be changed as +A1:2009 for the Technical requirements

≤<u>3.0</u> S.W.

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				Telescont	Test steals						
6No (CINo)	Tosi	SeeC10	ten	requirements <sup>1)2)</sup> (mbar)	Exercises	Facing directly	Facing vertically upwards	Facing vet ically downwards	Lying on Hurleth side	Lying the right	
					A.B.						
	Clogging	Inhalaces 45 Even	mbur.		TC:						N/A
18	test-	To have			20%						
(7.17)	Breathing	accorate)			A.R.			1		-	
	ensember	95 L/min	mbar		YAT						N/A
		22 Dinin			1100						

Note: 1: Valved particle filtering half masks.

After degrain the adhation resistance of a third scened <u>FFP1 Analog \_FFP2, 5 mbst \_FFP2 Tenhar at 95 Lima</u> continuous flow;

The evolution resistance shall not exceed just a 100 Lima continuous flow.

Note 2: Valveless particle filtering half masks.

After degrain plue inhalation and exhalation resistancers shall not exceed <u>FFP1 Julying FFP2. 4 mbst at 95 Limin</u> continuous flow.

S.No. (CLNo.)	tee in	en.	tine	Technicol sequintennos	Tieri result	Single item
19	Clogging test-				A.R.	
(7,17)	Penetration of filter	Paraffin oil	-	-	T.C.	- N/A
(7.17)	material				TC	

Abbrevence:		
A.R. As recei ved	M.S. Mechanical st rength	S.W. Simulated wearing treatment
T.C. Temperature conditioned	F.C. First continued	C.D. Cleaning and Disinfecting

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Annex A- Estimates of the uncertainty of measurement

Test item	Uncertainty		
Total inwardleakage	2.98%		
Pene tration of filter material	1 00%		
Flammability	1.00%		
Carbon dioxide content of the inhalation air	0.93%		
Breathing resistance	1.00%		

