



UNIVERSAL SERTIFIKASYON UYGUNLUK DEĞERLENDİRME A.Ş.

Tatlisu Mah. Arif Ay Sk. No:16/3 Umraniye, Istanbul / TURKEY

TEST REPORT

CLIENT and SAMPLE INFORMATION

TEST OWNER	SZUTEST UYGUNLUK DEĞERLENDİRME A.Ş.					
ADDRESS ADDRESS	Tatlısu Mah. Aki	1 Ümraniye İSTANBUL TÜRKİYE				
MANUFACTURER	DEXXON ENERJİ SAN.VE.TİÇ.A.Ş					
SAMPLE DESCRIPTION	Folding type protective mask					
BRAND NAME / MODEL	DEXXON DXNI	MD- NRFM04 FFP2				
SAMPLE RECEIVE DATE	20.01.2022					
STARTING DATE	20.01.2022	FINISH DATE	27.01.2022			
REMARKS	-					
NUMBER OF PAGES OF THE REPORT	5	01/2				
NUMBER OF SAMPLES	27	SAMPLE IDS	1-27			
AS RECEIVED SAMPLE NO	1-9					
맹	Simulated W	earing Treatment	10-11-12-13-14-15-16-17-18 (As Received) 19-20-21-22-23-24 (Sample after test of Mechanical Strength)			
CONDITIONING SAMPLE NO		re Conditioning (T.C.)				
		200	25.26.27 (As Received)			
Universal Cartification assential by TÜDVA		ical Strength	19-20-21-22-23-24 (As Received)			

Universal Certification accredited by TÜRKAK under registration number AB-1693-T for TS EN ISO / IEC 17025:2017 as test laboratory.

Turkish Accreditation Agency (TURKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the recognition of test reports.

The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.

> Issue Date 27.01.2021

Murat Aydemir Responsible of Laboratory

Approval Osman Camci

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Testing reports without signature are not valid.



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NOTE/1

The results given in this test report belongs to the samples tested.

NOTE 2

Requirements are taken from the EN 149: 2001 + A1: 2009 standard and the evaluation of results carried out according to these requirements.

NOTE 3

Information about conditioning;

Simulated wearing treatment:

A breathing machine is adjusted to 25 cycles/min and 2,0 l/stroke. The particle filtering half mask is mounted on a Sheffield dummy head. For testing, a saturator was incorporated in the exhalation line between the breathing machine and the dummy head, the saturator being set at a temperature in excess of 37 $^{\circ}$ C to allow for the cooling of the air before it reaches the mouth of the dummy head. The air saturated at (37 \pm 2) $^{\circ}$ C at the mouth of the dummy head.

In order to prevent excess water spilling out of the dummy's mouth and contaminating the particle filtering half mask the head inclined so that the water runs away from the mouth and is collected in a trap.

The breathing machine is brought into operation, the saturator switched on and the apparatus allowed to stabilize. The particle filtering half mask under the mounted on the dummy head. During the test time at approximately 20 min intervals the particle filtering half mask completely removed from the dummy head and refitted such that during the test period it is period it is fitted ten times to the dummy head.

Temperature conditioning (T.C.):

Exposed the particle filtering half masks to the following thermal cycle:

- a) For 24 h to dry atmosphere of (70±3) °C;
- b) For 24 h to dry atmosphere of (-30±3) °C; And allowed to return room temperature for at least 4 h between exposures and prior to subsequent testing. The conditioning carried out in a manner which ensured that no thermal shock occurs.

Mechanical strength:

After the masks / strainers are removed from their packaging (if they have seals on them, they are not opened) they are placed in the wide channels on the upper table of the device horizontally and not touching each other.

The device set and operated to operate at 100 revolutions per minute and the conditioning time to be 20 minutes.

As a result of the experiment, it was checked that any deterioration in the masks / strainers or the disassembled parts have not loosened or separated in any way.

Flow conditioning:

A total of 3 valved particle filtering half masks tested, one as received and two temperature conditioned in accordance with temperature.

NOTE 4

Information about evaluation;

Passed Resul

Results are suitable to requirements.

Results are not suitable to requirements.

Failed

Assessment not carried out.

NAs N/A

Requirement not applicable.

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NOTE 5

In case of conformity assessment, in tests within the scope of TS EN ISO/IEC 17025:2017 accreditation upon customer request; The Simple Acceptance Decision Rule is used. If requested by the customer, the k=2 coverage factor and the measurement uncertainty value at 95% confidence level are specified in the report for the requested tests. Tests marked with * in this report are not included in the scope of accreditation.

NOTE 6

The experiments were carried out at an ambient temperature of 16-32 degrees.

SAMPLE PHOTOS









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7.9.2 PENETRATION OF FILTER MATERIAL

Test Method: EN 149:2001 + A1:2009

The test results obtained are given in the tables as follows,

NO. OF SAMPLE	CONDITION	RESULTS Penetration of Sodium Chloride in accordance with EN 13274-7:2019 [%] Flow rate 95 1/min	REQUIREMENTS	EVALUATION
2 3	As received	1,19 1,07 1,27	FFP1 ≤ 20 %	OF
10 11 12	Simulated wearing treatment	2,08 1,65 1,28	FFP2 ≤ 6 %	No evaluation requested.
19 20 21	Mechanical strength + Temperature conditioned	1,69 1,63 2,74	FFP3 ≤ 1 %	

Results for samples 19, 20 and 21 is taken by exposure test. (the mask is loaded 120mg of NaCl)

1000	NO. OF SAMPLE	CONDITION	RESULTS Penetration of Paraffin Oil Mist in accordance with EN 13274-7:2019 [%] Flow rate 95 l/min	REQUIREMENTS	EVALUATION
	5	As received	1,25 1,46 2,99	FFP1 ≤ 20 %	
	13 14 15	Simulated wearing treatment	1,87 1,66 1,70	FFP2 ≤ 6 %	No evaluation requested.
	22 23 24	Mechanical strength + Temperature conditioned	3,04 4,07 3,87	FFP3 ≤ 1 %	DET N

Results for samples 22,23 and 24 is taken by exposure test. (the mask is loaded 120mg of Paraffin Oil)

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7.16 BREATHING RESISTANCE

Test Method: EN 149:2001 + A1:2009

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mnalation F	cesistance					The second secon	
NO. OF SAMPLE	CONDITION	FLOW RATE 30 l/min [mbar] REQUIREMENTS		FLOW RATE 95 1/min [mbar]	REQUIREMENTS	EVALUATION	
7	As received	0,52 0,51		1,63 1,64			
9	and the second s	0,52	FFP1 ≤ 0,60	1,65	FFP1 ≤ 2,10		
17	Simulated wearing	0,48	FFP2 ≤ 0,70	1,55 1,62 1,64	FFP2 ≤ 2,40	No evaluation requested.	
18	treatment Temperature	0,51	FFP3 ≤ 1,0	1,69	FFP3 ≤ 3,00	直	
26	conditioned	0,53		1,65			

Exhalation Resistance

NO. OF SAMPLE	CONDITION	FLOW RATE	Facing directly [mbar]	Facing vertically upwards [mbar]	Facing vertically downwards [mbar]	Lying on the left side [mbar]	Lying on the right side [mbar]		EVALUATION
07			2,90	2,91	2,89	2,90	2,89		OF
8	As received		2,87	2,86	2,87	2,85	2,86	8	1
9		TOL	2,92	2,90	2,92	2,91	2,92	FFP1 ≤ 3,0	
16	Simulated		2,79	2,78	2,80	2,81	2,80		No evaluation
17	wearing	Ì	2,91	2,85	2,90	2,91	2,90	FFP2 ≤ 3,0	requested.
18	treatment		2,90	2,91	2,91	2,88	2,90		0.3.4
25	W. Callandar	160 l/min		2,91	2,90	2,90	2,93	FFP3 ≤ 3,0	
26	Temperature		2,88	2,85	2,88	2,86	2,86		
2.7	conditioned		2,89	2,89	2,91	2,90	2,88		

-End of Report-

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