

AB Tip İnceleme Sertifikası EU Type-Examination Certificate

Belge No / Certificate No : 92-21-01-R01
**Belgelendirme Tarihi - Bir Sonraki Belge Tarihi /
Certification Date / Certificate Validity Date** : 05.08.2022-02.04.2026
Belge Geçerlilik Tarihi / Document Validity Period : 5 yıl / 5 years
**Firma Unvanı ve Adresi /
Company Name and Address** : FAGO MEDİKAL SAN. VE TİC. LTD. ŞTİ.
15 Temmuz Mah. Cami Yolu Cad. No:106 / Z1
Bağcılar/ İSTANBUL
Marka / Model / Brand / Model : FAGO 001
Direktifi / Directive : 2016/425 REGULATION
Modülü/Kategori / Module / Category : B MODÜLÜ/ KATEGORİ III
MODULE B / CATEGORY III
**Teknik Değerlendirme Rapor No/
Technical Evaluation Report No** : MNA 92-21-01-R01

Ürün Tipi / Product Type:

- EN 149:2001+ A1:2009 Solunumla ilgili koruyucu cihazlar - Parçacıklara karşı koruma amaçlı filtreli yarım maskeler/ Respiratory protective devices - Filtering half masks to protect against particles

Ürünün Malzeme Bilgisi / Product Material Information: FAGO 001 model ürünleri kumaş, elastik kayış, burun klipsi ve filtre katmanı kullanılarak imal edilmiştir./ FAGO 001 model products are manufactured using fabric, elastic strap, nose clip, filter layer.

Revizyon nedeni / Reason for Revision : Maske tasarımı değiştirilmiştir. / Design of the mask has been changed.

Volkan AKIN
05.08.2022

Karar Verici / Approver



Okan AKEL
05.08.2022

Şirket Müdürü / General Manager



MNA Laboratuvarları San. Tic.Ltd .Şti

Adres: Küçükbakkalköy Mahallesi Yenidoğan Cad.No:21 Ataşehir/ İstanbul

Tel: 0216 574 07 08 Faks: 0216 575 13 31 www.mnalab.com

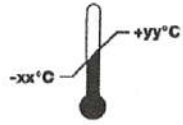
ATTACHMENTS (92-21-01-R01)

To certify the PPE product at Category III level, C2 or D module is accompanied by applying one of the conformity assessment methods along with the EU Type Examination (Module B).

Model : FAGO 001

PPE SPECIFICATION	PERFORMANCE LEVELS
Classification	FFP2
Reusable / Single Shift Use	NR

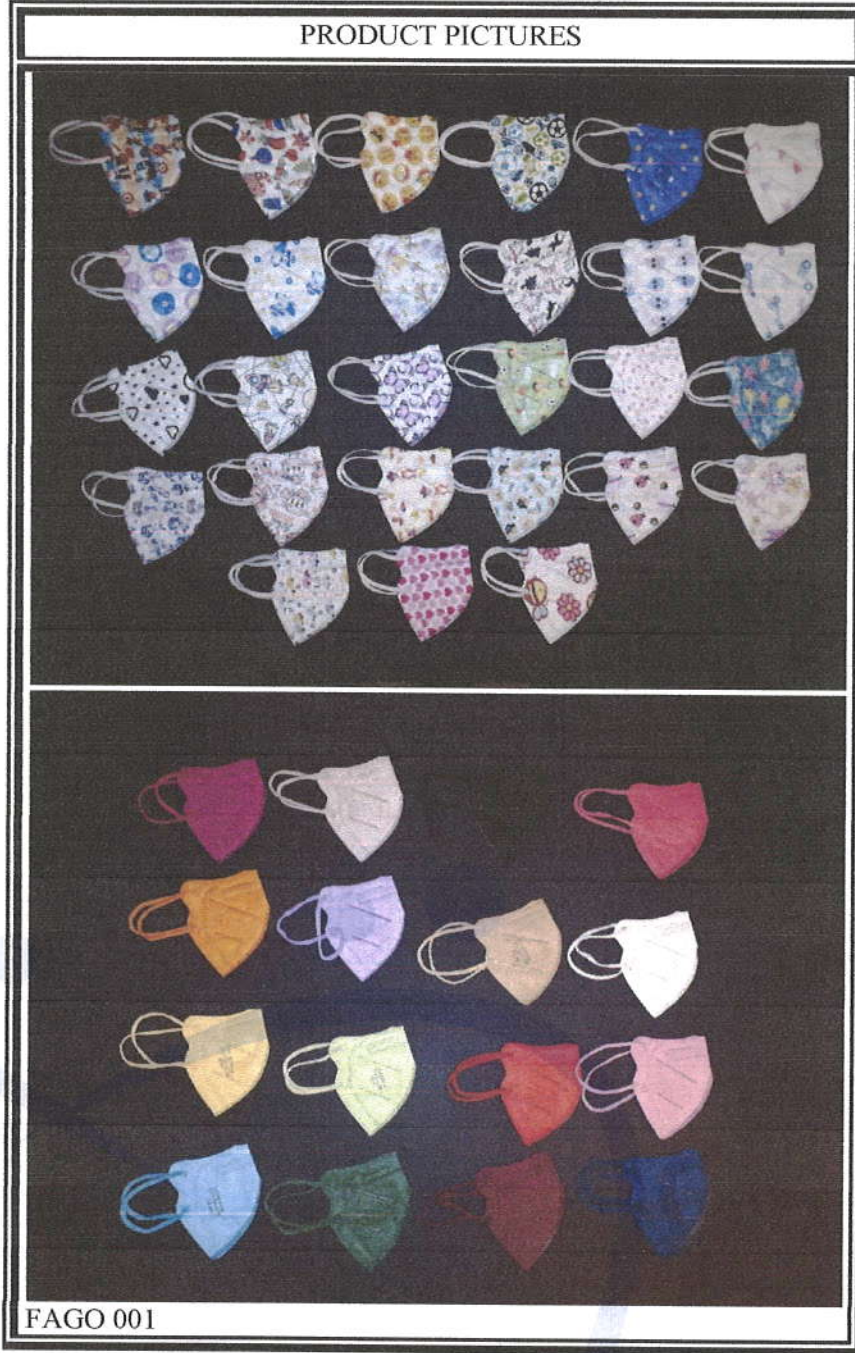
PPE produced as a single unit to fit an individual user, all the necessary instructions for manufacturing such PPE on the basis of the approved basic model:

MARKING	
MANUFACTURER: FAGO MEDİKAL SAN. VE TİC. LTD. ŞTİ	
PPE TYPE : - EN 149:2001+ A1:2009 Respiratory protective devices - Filtering half masks to protect against particles	
MODEL: FAGO 001	
PRODUCT SIZE: Large, XXS	
PICTOGRAM AND PERFORMANCE LEVELS: EN 149:2001+ A1:2009 FFP2 NR	
	
	
	
NB 2841	
Or Condition of Storage	

MNA LABORATORIES SAN. TIC. LTD. ŞTİ declares that the above-mentioned product meets the requirements of the directive according to the EU Directive 2016/425, the safety of the product is covered by the conditions and use specified in this certificate and in the technical file.

MNA Laboratuvarları San. Tic.Ltd .Şti
Adres: Küçükbakkalköy Mahallesi Yenidoğan Cad.No:21 Ataşehir/ İstanbul
Tel: 0216 574 07 08 Faks: 0216 575 13 31 www.mnalab.com

ATTACHMENTS (92-21-01-R01)



DOCUMENTS IN THE TECHNICAL FILE

- Basic Health Safety Requirements
- Risk Assessment
- Test Reports
- Technical Report

Report No : 92-21-01-R01

Report Date : 05.08.2022

Application No : 92-21-01

1. COMPANY INFORMATION:

FAGO MEDİKAL SAN. VE TİC. LTD. ŞTİ.
15 Temmuz Mah. Cami Yolu Cad. No:106 / Z1 Bağcılar/ İSTANBUL
Tel: +90212 630 67 55 -56
E-mail: info@fagomedikal.com, birsen@fagomedikal.com

2. PPE INFORMATION:

Disposable and non-sterile half mask made of particulate protection filter material.

3. PPE TYPE IDENTIFICATION

EN 149:2001+A1:2009 Respiratory protective devices – Filtering half masks to protect against particles - Requirements, testing, marking

4. PPE PICTURES



FAGO 001

5. PPE DIMENSIONS:

FAGO 001 model has been found to be produced using Large and XXS sizes.

6. PPE PRODUCT MATERIAL INFORMATION:

The product is made of elastic strap, nonwoven fabric on the outer and inner layers and filter material on the middle layer.

7. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

- A visual inspection was made according to EN 149:2001 +A1:2009 for ergonomics.
- Protection levels and degrees are defined by the manufacturer.
- Suitable construction materials were determined by visual inspection according to EN 149:2001 +A1:2009.

8. ANALYSIS EVALUATION AND MARKING:

EN 149:2001 +A1:2009

TESTS	PARAMETER	PERFORMANCE LEVELS			RESULTS	PERFORMANCE LEVELS	EVALUATION
		FFP1	FFP2	FFP3			
Part 7.3 Visual inspection	Shall also the marking and the information supplied by the manufacturer				Appropriate	-	PASS
Part 7.4 Packaging	Particle filtering half mask shall be offered for sale packaged in such a way that they are protected against mechanical damage and contamination before use.				Appropriate	-	PASS
Part 7.5 Material	When conditioned in accordance 8.3.1 & 8.3.2 the particle filter half mask shall not collapse.				Appropriate	-	PASS
Part 7.6 Cleaning and disinfecting	After cleaning and disinfecting the re-usable particle filtering half mask shall satisfy the penetration requirement of the relevant class.				Not applicable	-	Not applicable
Part 7.7 Practical performance	No negative comments should be made by the test subject regarding any of the criteria evaluated.				Appropriate	-	PASS
Part 7.8 Finish of parts	Parts of the device likely to come into contact with the wearer shall have no sharp edge or burrs.				Appropriate	-	PASS
Banned Azo Dyes	< 30 mg/kg				< 5 mg/kg	< 30 mg/kg	PASS

TESTS	PARAMETER	PERFORMANCE LEVELS			RESULTS	PERFORMANCE LEVELS	EVALUATION
		FFP1	FFP2	FFP3			
Part 7.9.1 Total inward leakage	At least 46 out of the 50 individual exercise result	≤25	≤11	≤5	See the table below	FFP2	PASS
	At least 8 out of the 10 individual wearer arithmetic means	≤22	≤8	≤2	See the table below	FFP2	PASS

Total Inward Leakage (%)						
	Exercise 1	Exercise 2	Exercise 3	Exercise 4	Exercise 5	Average
Subject 1 (As recieved)	8,2	8,0	7,2	7,2	7,2	7,6
Subject 2 (As recieved)	8,7	7,0	6,8	6,9	7,0	7,3
Subject 3 (As recieved)	7,0	7,2	7,2	8,7	8,8	7,8
Subject 4 (As recieved)	6,9	6,9	7,0	5,8	5,9	6,5
Subject 5 (As recieved)	8,1	8,1	7,7	5,7	7,5	7,4
Subject 6 (After temperature conditioning)	6,6	6,6	7,0	6,8	8,1	7,0
Subject 7 (After temperature conditioning)	8,4	8,6	7,2	7,2	6,9	7,7

Subject 8 (After temperature conditioning)	7,5	8,1	6,9	6,9	7,2	7,3
Subject 9 (After temperature conditioning)	6,9	6,9	8,1	8,7	5,9	7,3
Subject 10 (After temperature conditioning)	7,3	6,7	6,6	6,6	6,5	6,7

Subject facial dimensions

Subject	Face Length (mm)	Face Width (mm)	Face Depth (mm)	Mouth Width (mm)
1	133	132	132	65
2	125	144	116	67
3	126	135	124	75
4	123	133	134	74
5	117	135	122	73
6	122	142	133	66
7	113	132	114	75
8	135	123	123	65
9	122	135	133	74
10	135	142	125	83

TESTS	PARAMETER	PERFORMANCE LEVELS			RESULTS	PERFORMANCE LEVELS	EVALUATION
		FFP1	FFP2	FFP3			
Part 7.9.2 Penetration of filter material	Sodium chloride, 95 L/min %, max	% 20	% 6	% 1	See the table below	FFP2	PASS
	Paraffin oil, 95 L/min %, max	% 20	% 6	% 1	See the table below	FFP2	PASS

Penetration of filter material	Sodium Chloride (%)	Paraffin Oil (%)
As recieved	4,5	4,9
As recieved	4,1	4,9
As recieved	4,3	5,1
After the simulated wearing treatment	3,9	5,0
After the simulated wearing treatment	4,4	4,8
After the simulated wearing treatment	4,3	5,2
Mechanical strength and temperature conditioning	5,6	5,8
Mechanical strength and temperature conditioning	5,6	5,7
Mechanical strength and temperature conditioning	5,7	5,8

TESTS	PARAMETER	PERFORMANCE LEVELS			RESULTS	PERFORMANCE LEVELS	EVALUATION
		FFP1	FFP2	FFP3			
Part 7.10 Compatibility with skin	Materials shall not be known to be likely to cause irritation or any other adverse effect to health				Appropriate	-	PASS
Part 7.11 Flammibility	Mask shall not burn or not to continue to burn for more than 5 s				Flame not seen	-	PASS
Part 7.12	Shall not exceed an average of % 1				0,85	-	PASS

Carbondioxide content of the inhalation air					0,81 0,87		
Part 7.13 Head harness	It can be donned and removed easily				Appropriate	-	PASS
Part 7.14 Field of vision	The field of vision shall acceptable in practical performance test.				Appropriate	-	PASS
Part 7.15 Exhalation valve(s)	It shall withstand axially a tensile force of 10 N apply for 10 s. If fitted, shall continue to operate correctly after a continuous exhalation flow of 300 L/min over a period of 30 s.				Not applicable	-	Not applicable
TESTS	PARAMETER	PERFORMANCE LEVELS			RESULTS	PERFORMANCE LEVELS	EVALUATION
		FFP1	FFP2	FFP3			
Part 7.16 Breathing Resistance	Inhalation 30L/min	0,6 mbar	0,7 mbar	1,0 mbar	See the table below	FFP2	PASS
	Inhalation 95L/min	2,1 mbar	2,4 mbar	3,0 mbar	See the table below	FFP2	PASS
	Exhalation 160L/min	3,0 mbar	3,0 mbar	3,0 mbar	See the table below	FFP2	PASS

Breathing Resistance (mbar)	Inhalation 30L/min	Inhalation 95L/min
As recieved	0,5	1,8
As recieved	0,5	1,7
As recieved	0,5	1,8
After temperature conditioning	0,5	1,7
After temperature conditioning	0,5	1,7
After temperature conditioning	0,4	1,8
After the simulated wearing treatment	0,5	1,8
After the simulated wearing treatment	0,4	1,8
After the simulated wearing treatment	0,4	1,7

Breathing Resistance 160L/min (mbar)	Facing directly ahead	Facing vertically upwards	Facing vertically downwards	Lying on the left side	Lying on the right side
As recieved	2,8	2,9	2,8	2,8	2,9
As recieved	2,9	2,8	2,9	2,9	2,8
As recieved	2,9	2,9	2,9	2,9	2,9
After temperature conditioning	2,9	2,9	2,9	2,9	2,8
After temperature conditioning	2,8	2,9	2,8	2,9	2,9
After temperature conditioning	2,8	2,9	2,8	2,9	2,8
After the simulated wearing treatment	2,8	2,8	2,9	2,9	2,8
After the simulated wearing treatment	2,9	2,9	2,9	2,9	2,8
After the simulated wearing treatment	2,9	2,8	2,9	2,8	2,9

TESTS	PARAMETER	PERFORMANCE LEVELS	RESULTS	PERFORMANCE LEVELS	EVALUATION
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		FFP1	FFP2	FFP3			
Part 7.17 Clogging	After clogging the inhalation resistances shall not exceed. (valved)	4 mbar	5 mbar	7 mbar	Not applicable	-	Not applicable
	The exhalation resistance shall not exceed 3 mbar at 160 L/ min continuous flow. (valved)				Not applicable	-	Not applicable
	After clogging the inhalation and exhalation resistances shall not exceed. (valveless)	3 mbar	4 mbar	5 mbar	Not applicable	-	Not applicable
Part 7.18 Demountable part	All demountable parts (if fitted) shall be readily connected and secured were possible by hand.				Not applicable	-	Not applicable
Part 9 Marking	The packaging information shall be clearly and durably marked on the smallest commercially available packaging or legible through it if the packaging is transparent.				Appropriate	-	PASS

9. DECISION PROPOSAL

Analysis and examinations FAGO 001 model coded personal protective equipment; Respiratory Protective Devices EN 149:2001 +A1:2009- Filtered Half Masks for Protection Against Particles - Properties, Experiments and Marking standards are evaluated. It is recommended to be certified at the performance levels specified as a result of technical evaluations.

10. ATTACHMENTS

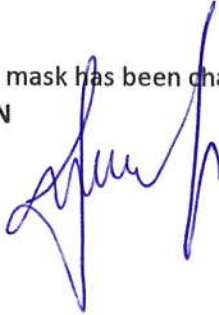
- Basic Health Safety Requirements
- Risk Assessment
- Test Reports (M-2021-00252, M-2021-01817)
- User Instruction

Reason for Revision : Design of the mask has been changed.

CONTROLLER : VOLKAN AKIN

SING :

DATE : 05.08.2022



**MNA LABORATUVARI
ANALİZ RAPORU**

İstek Numarası : M-2021-00252	Tarih: 17.12.2021	Raporun Sayfa Sayısı : 1 / 3	Rev:
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Analizin Amacı	: ÖZEL İSTEK	Markası	: FAGO
Numunenin Cinsi	: MASKE	Modeli	: FAGO 001
Numuneyi Gönd. Kuruluş	: FAGO MEDİKAL SAN.VE TİC.LTD.ŞTİ.	Numuneyi Alan	: MÜŞTERİ
Üretici Firma Adı	: FAGO MEDİKAL SAN.VE TİC.LTD.ŞTİ.		
Analiz Tarihi	: 09.02.2021		
Numune Miktarı	: 100 adet		
Diğer Bilgiler	: RENKLİ VE DESENLİ		

No	Yapılan Analizler	Analiz Sonucu	Limit Değer	Metod	Değerlendirme	Fiziksel Durum
1	YASAKLI AZO BOYAR MADDELER TAYİNİ	<5 (mg/kg)	<30 ppm	TS EN ISO 14362-1+TS EN ISO 17234-1	UYGUN	
2		<5 (mg/kg)	<30 ppm	TS EN ISO 14362-1+TS EN ISO 17234-1		
3		<5 (mg/kg)	<30 ppm	TS EN ISO 14362-1+TS EN ISO 17234-1		
4		<5 (mg/kg)	<30 ppm	TS EN ISO 14362-1+TS EN ISO 17234-1		
5		<5 (mg/kg)	<30 ppm	TS EN ISO 14362-1+TS EN ISO 17234-1		
6		<5 (mg/kg)	<30 ppm	TS EN ISO 14362-1+TS EN ISO 17234-1		
7		<5 (mg/kg)	<30 ppm	TS EN ISO 14362-1+TS EN ISO 17234-1		
8		<5 (mg/kg)	<30 ppm	TS EN ISO 14362-1+TS EN ISO 17234-1		
9		<5 (mg/kg)	<30 ppm	TS EN ISO 14362-1+TS EN ISO 17234-1		
10		<5 (mg/kg)	<30 ppm	TS EN ISO 14362-1+TS EN ISO 17234-1		
11		<5 (mg/kg)	<30 ppm	TS EN ISO 14362-1+TS EN ISO 17234-1		
12		<5 (mg/kg)	<30 ppm	TS EN ISO 14362-1+TS EN ISO 17234-1		
13		<5 (mg/kg)	<30 ppm	TS EN ISO 14362-1+TS EN ISO 17234-1		
14		<5 (mg/kg)	<30 ppm	TS EN ISO 14362-1+TS EN ISO 17234-1		

ÖRNEK ALINAN YER

1. Satır YASAKLI AZO BOYAR MADDELER TAYİNİ Analizi için örnek alım yeri : r1r2r3
10. Satır YASAKLI AZO BOYAR MADDELER TAYİNİ Analizi için örnek alım yeri : r28r29r30
11. Satır YASAKLI AZO BOYAR MADDELER TAYİNİ Analizi için örnek alım yeri : r31r32r33
12. Satır YASAKLI AZO BOYAR MADDELER TAYİNİ Analizi için örnek alım yeri : r34r35r36
13. Satır YASAKLI AZO BOYAR MADDELER TAYİNİ Analizi için örnek alım yeri : r37r38r39
14. Satır YASAKLI AZO BOYAR MADDELER TAYİNİ Analizi için örnek alım yeri : r40r41r42
2. Satır YASAKLI AZO BOYAR MADDELER TAYİNİ Analizi için örnek alım yeri : r4r5r6
3. Satır YASAKLI AZO BOYAR MADDELER TAYİNİ Analizi için örnek alım yeri : r7r8r9

**MNA LABORATUVARI
ANALİZ RAPORU**

İstek Numarası : M-2021-00252	Tarih: 17.12.2021	Raporun Sayfa Sayısı : 2 / 3	Rev:
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Analizin Amacı	: ÖZEL İSTEK	Markası	: FAGO
Numunenin Cinsi	: MASKE	Modeli	: FAGO 001
Numuneyi Gönd. Kuruluş	: FAGO MEDİKAL SAN.VE TİC.LTD.ŞTİ.	Numuneyi Alan	: MÜŞTERİ
Üretici Firma Adı	: FAGO MEDİKAL SAN.VE TİC.LTD.ŞTİ.		
Analiz Tarihi	: 09.02.2021		
Numune Miktarı	: 100 adet		
Diğer Bilgiler	: RENKLİ VE DESENLİ		

4. Satır YASAKLI AZO BOYAR MADDELER TAYİNİ Analizi için örnek alım yeri : r10r11r12
5. Satır YASAKLI AZO BOYAR MADDELER TAYİNİ Analizi için örnek alım yeri : r13r14r15
6. Satır YASAKLI AZO BOYAR MADDELER TAYİNİ Analizi için örnek alım yeri : r16r17r18
7. Satır YASAKLI AZO BOYAR MADDELER TAYİNİ Analizi için örnek alım yeri : r19r20r21
8. Satır YASAKLI AZO BOYAR MADDELER TAYİNİ Analizi için örnek alım yeri : r22r23r24
9. Satır YASAKLI AZO BOYAR MADDELER TAYİNİ Analizi için örnek alım yeri : r25r26r27

**MNA LABORATUVARI
ANALİZ RAPORU**

İstek Numarası : M-2021-00252	Tarih: 17.12.2021	Raporun Sayfa Sayısı : 3 / 3	Rev:
Analizin Amacı : ÖZEL İSTEK	Markası : FAGO	Modeli : FAGO 001	Numuneyi Alan : MÜŞTERİ
Numunenin Cinsi : MASKE	Numuneyi Alan : MÜŞTERİ		
Numuneyi Gönd. Kuruluş : FAGO MEDİKAL SAN.VE TİC.LTD.ŞTİ.			
Üretici Firma Adı : FAGO MEDİKAL SAN.VE TİC.LTD.ŞTİ.			
Analiz Tarihi : 09.02.2021			
Numune Miktarı : 100 adet			
Diğer Bilgiler : RENKLİ VE DESENLİ			

Deney laboratuvarı olarak faaliyet gösteren MNA Laboratuvarları, TÜRKAK 'tan AB-1183-T ile TS_EN_ISO/IEC_17025:2017 standardına göre akredite edilmiştir. Türk Akreditasyon Kurumu (TÜRKAK) deney raporlarının tanınırlığı konusunda Avrupa Akreditasyon Birliği (EA) ile çok taraflı anlaşma ve Uluslararası Laboratuvar Akreditasyon Birliği (ILAC) ile karşılıklı tanınma antlaşmasını imzalamıştır.

*Analiz akreditasyon kapsamındadır.

Not :

- Bu analiz raporunun hiçbir bölümü tek başına veya ayrı ayrı kullanılamaz ve laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz, üçüncü şahıslara ve reklam aracı olarak kullanılamaz.
- Analiz sonuçları MNA Laboratuvarı firma/kurum/shahıs tarafından gönderilen yukarıda belirtilen numune için geçerlidir. Bütünü temsil etmeyebilir.
- İmzasız ve Mühürsüz raporlar geçersizdir.
- Bu analiz raporu adli-idari işlemlerde ve reklam amacıyla kullanılamaz.
- Sonuçlar numunenin teslim alındığı hali için geçerlidir.
- Karar kuralı belirlenmiş bir spesifikasyona uygunluğunu belirtirken, ölçüm belirsizliğinin nasıl hesaba katılacağını belirleyen kuraldır. TLM-052 Karar Kuralı Uygulama talimatına göre müşteri ile mutabık kalınarak seçilen Karar Kuralı Uygulama Yöntemi raporda açık bir şekilde beyan edilmiştir.
- Limit Değerleri analiz metodlarından alınarak belirlenmiştir.
- Müşteri tarafından sağlanan bilgiler sonuçların geçerliliğini etkilemesi durumunda, laboratuvar sorumlu değildir.
- Deney ve/veya ölçüm sonuçları, genişletilmiş ölçüm belirsizlikleri (olması halinde) ve deney metodları bu sertifikanın tamamlayıcı kısmı olan takip eden sayfalarda verilmiştir.
- Su geçirmezlik Tayini Hidrostatik Basınç Tayini TS ISO 811(Hidrostatik Basınç Tayini Cihazı E/N:53) Analizi, Dikiş Kopma Dayanımı EN ISO 13965-2 (Mukavemet Test Cihazı E/N:50) Analizi ve sıvı kimyasal geçirmeye dayanım TS EN 659-A1 Madde 3.18 (Sıvı Kimyasal Geçirme Cihazı E/N:107) Analizi şartlandırma odasında gerçekleştirilmekte olup ortam şartları için ISO 139 MADDE 3.2 koşulları (23 ± 2° C sıcaklık ve %50 ± 4 bağıl nem) uygulanır.
- Analiz edilen fitalatlar listesi aşağıdadır.
Di-iso-nonyl phthalate (DINP), CAS number: 28553-12-0 or 68515-48-0
Di-(2-ethylhexyl) phthalate (DEHP), CAS number: 117-81-7
Di-n-octyl phthalate (DNOP), CAS number: 117-84-0
Di-iso-decyl phthalate (DIDP), CAS number: 26761-40-0 or 68515-49-1
Butyl benzyl phthalate (BBP), CAS number: 85-68-7
Di-butyl phthalate (DBP), CAS number: 84-74-2

Selin GERGİN
Numune Kabul ve Raporlama
Sorumlusu

Erhan ÜSTÜNEL
Kimya KDD Lab. Bölüm
Sorumlusu

Tasdik Olunur
17.12.2021
Volkan AKIN
Laboratuvar Müdürü

MNA LABORATORY ANALYSIS REPORT

Report Number : M-2021-01817

Date : 2022-01-28 17:29:46

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Rev:-

Purpose of Analysis : Special request
Sample Send : FAGO MEDİKAL SAN.VE TİC.LTD.ŞTİ..
Address : 15 Temmuz Mah. Cami Yolu Cad. No:106 / Z1 Bağcılar/ İSTANBUL
Sample Acceptance Date : 2021-12-28 07:47:33
Analysis Date : 2021-12-28 09:41:22
Sample Quantity : 100 Pieces
Sample Description : FFP2
Other informations : -

Banned Azo Dyes

Tests	Analysis result	Limit Value	Method	Evaluation	Physical Condition
Banned Azo Dyes	<5 mg/kg	<30 mg/kg	EN 14362-1	PASS	-

Flammability

Tests	Analysis result	Limit Value	Method	Evaluation	Physical Condition
Flammability	Flame not seen.	Shall not burn for more than 5 sec after removal from the flame	EN 13274-4	PASS	-

Penetration Of Filter Material

Tests	Analysis result	Limit Value	Method	Evaluation	Physical Condition
Penetration Of Filter Material	Check the table for results.	FFP1≤20 FFP2≤6 FFP3≤1	EN 149+A1 Part 8.11, EN 13274-7	PASS	-

	Sodium Chloride (%)	Paraffin Oil (%)
As received	4,5	4,9
As received	4,1	4,9
As received	4,3	5,1
After the simulated wearing treatment	3,9	5,0
After the simulated wearing treatment	4,4	4,8
After the simulated wearing treatment	4,3	5,2
Mechanical strength and temperature conditioning (120 mg)	5,6	5,8

FRM:23/rev.02/09.08.2019

MNA LABORATORY ANALYSIS REPORT

Report Number : M-2021-01817	Date : 2022-01-28 17:29:46	Page 2 / 6	Rev:-
Mechanical strength and temperature conditioning (120 mg)	5,6	5,7	
Mechanical strength and temperature conditioning (120 mg)	5,7	5,8	

Carbon Dioxide Content Of The Inhalation Air

Tests	Analysis result	Limit Value	Method	Evaluation	Physical Condition
Carbon Dioxide Content Of The Inhalation Air	Check the table for results.	Maximum %1	EN 149+A1 Part 8.7	PASS	-

	CO2 (%)
Sample 1	0,85
Sample 2	0,81
Sample 3	0,87

Breathing Resistance

Tests	Analysis result	Limit Value	Method	Evaluation	Physical Condition
Breathing Resistance	Check the table for results.	Check the table for limits	EN 149+A1 Part 8.9	PASS	-

Classification	30 L/min max basınç (mbar)	95 L/min max basınç (mbar)	160 L/min max basınç (mbar)
FFP1	0,6	2,1	3,0
FFP2	0,7	2,4	3,0
FFP3	1,0	3,0	3,0

Inhalation	30 L/min	95 L/min
As received	0,5	1,8
As received	0,5	1,7
As received	0,5	1,8
After temperature conditioning	0,5	1,7
After temperature conditioning	0,5	1,7
After temperature conditioning	0,4	1,8
After the simulated wearing treatment	0,5	1,8
After the simulated wearing treatment	0,4	1,8
After the simulated wearing treatment	0,4	1,7

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After the flow conditioning	~	~	
After the flow conditioning	~	~	
After the flow conditioning	~	~	

Exhalation	Facing directly ahead	Facing vertically upwards	Facing vertically downwards	Lying on the left side	Lying on the right side
As received	2,8	2,9	2,8	2,8	2,9
As received	2,9	2,8	2,9	2,9	2,8
As received	2,9	2,9	2,9	2,9	2,9
After temperature conditioning	2,9	2,9	2,9	2,9	2,8
After temperature conditioning	2,8	2,9	2,8	2,9	2,9
After temperature conditioning	2,8	2,9	2,8	2,9	2,8
After the simulated wearing treatment	2,8	2,8	2,9	2,9	2,8
After the simulated wearing treatment	2,9	2,9	2,9	2,9	2,8
After the simulated wearing treatment	2,9	2,8	2,9	2,8	2,9
After the flow conditioning	~	~	~	~	~
After the flow conditioning	~	~	~	~	~
After the flow conditioning	~	~	~	~	~

Total Inward Leakage

Tests	Analysis result	Limit Value	Method	Evaluation	Physical Condition
Total Inward Leakage	Check the table for results.	Check the table for limits	EN 149+A1 Part 8.5	PASS	-

	At least 46 out of the 50 individual exercise result shall be not greater than	At least 8 out of the 10 individual wearer arithmetic means shall be not greater than
FFP1	<25	<22
FFP2	<11	<8
FFP3	<5	<2

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	Exercise 1	Exercise 2	Exercise 3	Exercise 4	Exercise 5	Average
Subject 1 (As received)	8,2	8,0	7,2	7,2	7,2	7,6
Subject 2 (As received)	8,7	7,0	6,8	6,9	7,0	7,3
Subject 3 (As received)	7,0	7,2	7,2	8,7	8,8	7,8
Subject 4 (As received)	6,9	6,9	7,0	5,8	5,9	6,5
Subject 5 (As received)	8,1	8,1	7,7	5,7	7,5	7,4
Subject 6 (After temperature conditioning)	6,6	6,6	7,0	6,8	8,1	7,0
Subject 7 (After temperature conditioning)	8,4	8,6	7,2	7,2	6,9	7,7
Subject 8 (After temperature conditioning)	7,5	8,1	6,9	6,9	7,2	7,3
Subject 9 (After temperature conditioning)	6,9	6,9	8,1	8,7	5,9	7,3
Subject 10 (After temperature conditioning)	7,3	6,7	6,6	6,6	6,5	6,7

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Operating as an experimental laboratory, MNA Laboratories have been accredited by TURKAK with AB-1183-T and TS_EN_ISO / IEC_17025: 2017 standard. Turkish Accreditation Agency (TÜRKAK) signed a multilateral agreement with the European Accreditation Association (EA) on the recognition of test reports and a mutual recognition agreement with the International Laboratory Accreditation Association (ILAC).

* Analysis is under accreditation.

Note :

1. No part of this analysis report can be used alone or separately, and may not be partially copied or reproduced, used to third parties and as a means of advertising without the written permission of the laboratory.
2. Analysis results are valid for the above mentioned sample sent by MNA Laboratory company / institution / person. It may not represent the whole.
3. Unsigned and unsealed reports are invalid.
4. This analysis report cannot be used in judicial-administrative procedures and for advertising purposes.
5. Results are valid for the sample as received.
6. The decision rule is the rule that determines how measurement uncertainty is taken into account when specifying the PASS density to a specified specification. According to the TLM-052 Decision Rule Implementation instruction, the Decision Rule Implementation Method selected in agreement with CUSTOMER is clearly stated in the report.
7. Limit Values are determined by taking from analysis methods.
8. The laboratory is not responsible if the information provided by the CUSTOMER affects the validity of the results.
9. Test and / or measurement results, expanded measurement uncertainties (if any) and test methods are given in the following pages, which are the supplementary part of this certificate.
10. Water Repellency Determination Hydrostatic Pressure Determination T S ISO 811 (Hydrostatic Pressure Tester E / N: 53) Analysis, Seam Strength EN ISO 13965-2 (Strength Test Device E / N: 50) Analysis and resistance to liquid chemical permeation TS EN 659 -A1 Part 3.18 (Liquid Chemical Transfer Device E / N: 107) Analysis is carried out in the conditioning room and ISO 139 PART 3.2 conditions (23 ± 2 ° C temperature and 50 ± 4% relative humidity) are applied for ambient conditions.

Selin Gergin

Numune Kabul ve Raporlama Sorumlusu

2022-01-28 16:20:34

Erhan Üstünel

Laboratuvar Sorumlusu

2022-01-28 15:57:21

VOLKAN AKIN
Laboratuvar Müdürü

2022-01-28

16:36:39



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