

# Face Mask for COVID-19

Anti-COVID 19



Design Co., Ltd.

August 2020

# Contents

- 1. Company Overview**
- 2. Mask Introduction**
- 3. Products**
  - Medical ( KF-94 / KF-AD ) Mask
  - Non-Medical ( Community ) Mask
- 4. Factory Information**
- 5. International Supply Reference**
- 6. Why Design ?**

## 1. Company Overview

### - General Information

Design Co., Ltd., based on own IT solution and distribution network, is a specialized company in Healthcare Products, Beauty Equipment, Therapy Solution Products and Business Platform Design.

<b>Representative</b>		Jang Guan Soon	<b>Establishment</b>	2012. May
<b>Business</b>		Manufacturing Wholesale Distribution Import & Export Trading	<b>Main Products</b>	Disposable Face Mask ( KF-AD, KF-94, Community ) LED Mask Beauty Equipment Small Consumer Electronics Battery Solutions ( secondary cells, power banks ), etc.
<b>Main-Biz Registration</b>		15. Jun. 2020	<b>KOSDAQ Registration</b>	15. Nov. 2018 ( CODE 227100 )
<b>Locations</b>	<b>Korea</b>	<b>Head Office</b> Dosan-daero 37-17, Gangnam-gu, Seoul <b>Factory #1 ( Medical, KF-AD Mask )</b> 63-27, Geumgok-ro, Hwasung-si, Gyeonggi-do, Korea <b>Factory #2 ( Non-Medical, Community Mask )</b> 16-10, LS-ro 166beon-gil, Gunpo-si, Gyeonggi-do, Korea <b>Factory #3 ( Medical, KF-94 Mask )</b> 1301, Oksan-myeon, Chenonju-si, Chungcheongbuk-do, Korea		
	<b>China</b>	<b>Branch Office</b> B310, Gonghe Industrial Road, Xixiang Street, Baoan District, Shenzhen, China		

## 1. Company Overview

### - Company Value

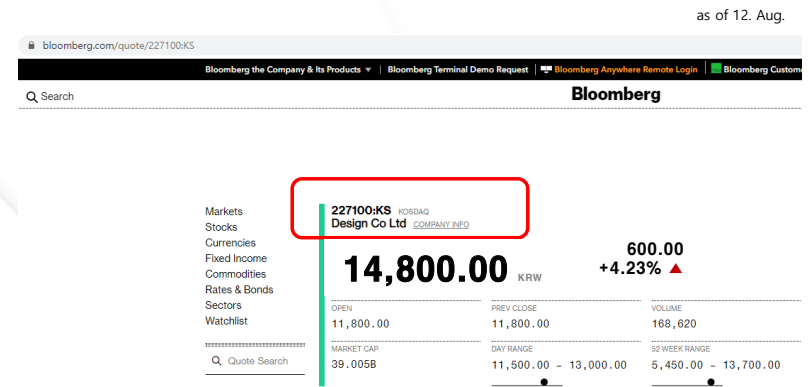
#### ◆ Certificate of MAIN-BIZ



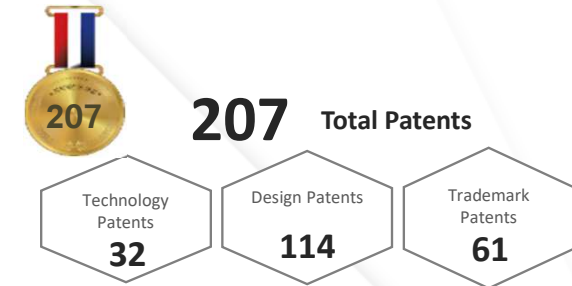
#### ◆ Certificate of KOSDAQ Listing



#### ◆ Stock Price (KOSDAQ)



#### ◆ Patent

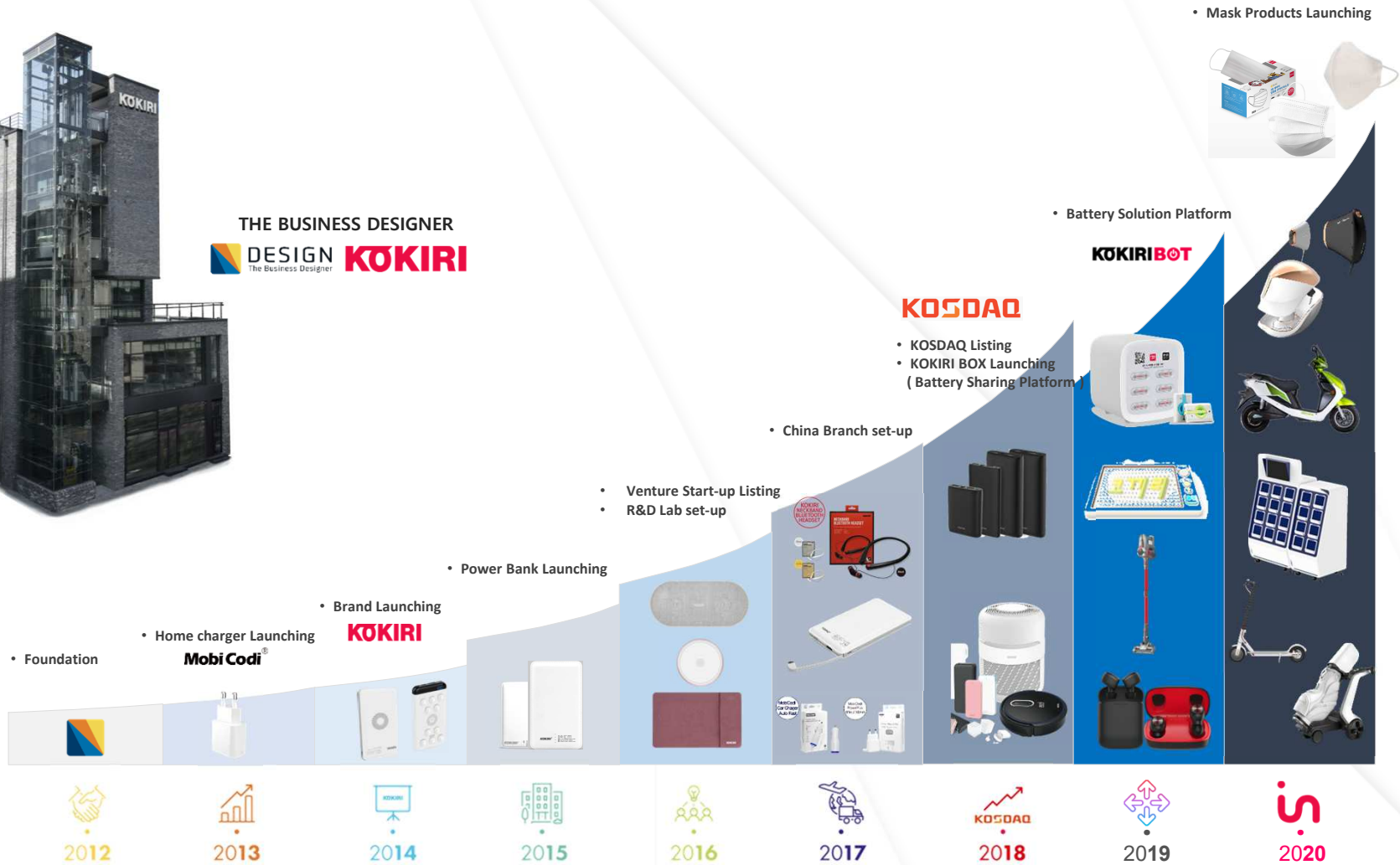


## 1. Company Overview

### - Company History



THE BUSINESS DESIGNER  
**DESIGN** The Business Designer **KOKIRI**



## 1. Company Overview

### - Business Category

#### Medical



#### Home Appliances



#### Battery Platform



#### Mobile Accessories





### - Medical ( KF-AD / KF-94 ) Mask

- ✓ **KF-AD & KF-94 mask** are the Korean standard medical-purpose's masks, which are officially approved by the Korean MFDS ( Ministry of Food and Drug Safety). ( \* Abbr. : KF = Korea Filter / AD = Anti-Droplets).
  - KF-AD mask has 95 percent bacterial filtration efficiency, a measurement of a material's resistance to penetration by bacteria.
  - KF-94 mask blocks more than 94% of the average particle size of 0.4μm.
- ✓ The exportation of KF-AD mask is expected to be allowed from Sep. 2020.  
Detail exportation schedule shall be updated continuously.

### - Non-Medical ( Community ) Mask

- ✓ **Community mask** known as Civil mask, has 95 percent bacterial filtration efficiency. This is the identical mask to the KF-AD mask in terms of its materials and shapes, but it's categorized as Community mask because it is not regulated and there are no standards. Thus, no CE marking allowed but the efficiency is same as KF-AD.
- ✓ The exportation of the civil-use mask which doesn't use **MB (Melt Blown)** filter is allowed.
- ✓ The exportation of the civil-use mask which uses MB (Melt Blown) filter is expected from the end of 2020.

## - Korea Export Regulation

Mask Line-up	Material	Layer	Certificate			Loading Q'ty (pcs) In bulk		Unit Price	M.O.Q	Export from Korea
			KF	FDA	CE	20' FCL	40' FCL			
Non-medical ( Community Mask )	SSS	3	X	In process	In process	500,000	1,000,000	TBD	20' FCL	Allowed
	SMS	3	X	In process	In process	500,000	1,000,000	TBD	20' FCL	Expected to be allowed from Sept. 2020
Medical ( KF-AD Mask )	SSS	3	In process	In process	In process	500,000	1,000,000	TBD	20' FCL	Expected to be allowed from Sept. 2020
	SMS	3	Approved	In process	In process	500,000	1,000,000	TBD	20' FCL	Expected to be allowed from Sept. 2020
Medical ( KF-94 Mask )	SSMSS	5	Approved	In process	In process	300,000	600,000	TBD	20' FCL	Allowed

✓ S : Spun-bonded ( Non-woven fabric )

✓ M : MB Filter ( Melt Blown )



### 3. Products

#### Medical Mask

##### • KF-AD Mask



Brand	Dr. BELLA MASK
Color	White
Materials	3-Ply Non-woven Fabric ( SSS or SMS )
Size	175 x 95 ( ±5mm ) – Large 145 x 95 ( ±5mm ) – Small
Q'ty	50 pcs ( 1 Package )
Shelf Life	2 years after production
Duration	4 hours ( Recommendable )
Manufacturer	Design Co., Ltd.
Country of Origin	KOREA

##### • KF-94 Mask



Brand	BYE CORONA
Color	White
Materials	4-Ply Non-woven Fabric (SSMS)
Size	175 x 95 ( ±5mm ) – Large
Q'ty	50 pcs ( 1 Package )
Shelf Life	3 years after production
Duration	8 hours ( Recommendable )
Manufacturer	Design Co., Ltd. (Alliance Partner)
Country of Origin	KOREA

#### Non-Medical Mask

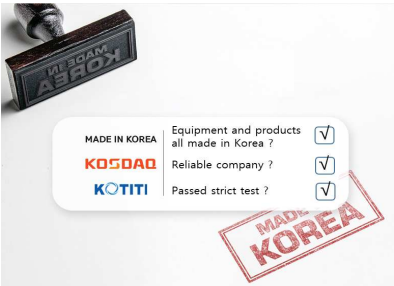
##### • Community Mask



Brand	KOKIRI COOL MASK
Color	White
Materials	3-Ply Non-woven Fabric ( SSS or SMS )
Size	175 x 95 ( ±5mm ) – Large 145 x 95 ( ±5mm ) – Small
Q'ty	50 pcs ( 1 Package )
Shelf Life	2 years after production
Duration	4 hours ( Recommendable )
Manufacturer	Design Co., Ltd.
Country of Origin	KOREA



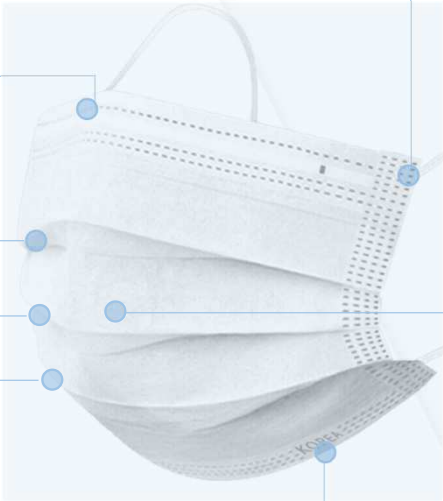
- Feature for KF-AD (Medical) & Community (Non-Medical) Mask



● 3 Layer Protection

● Memory Steel Wire  
- Free glasses foggy

● Precision welding for ear-loop



● Origin mark  
"KOREA"



- Ear Loop elasticity Test -



● Highly elastic & Easeful ear-loop

● 3-PLY Anti-Droplet Test

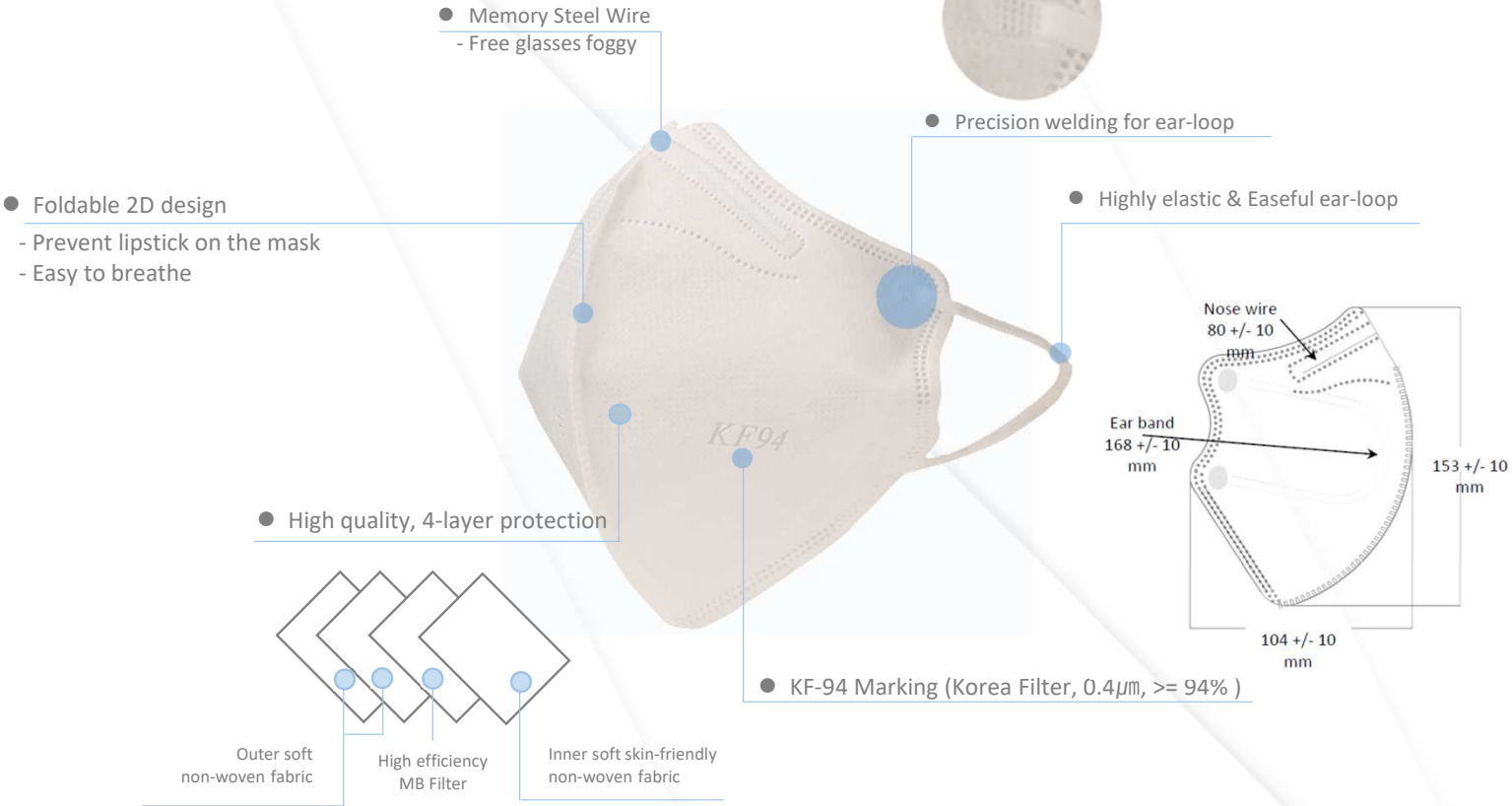


Outer soft  
non-woven fabric

High efficiency MB  
or Fabric Filter

Inner soft skin-friendly  
non-woven fabric

- Feature for KF-94 (Medical) Mask



### 3. Products



#### - Test Report and Certificate

##### (1) KF-AD (Medical)

##### - AF-AD Medical Mask Permit

**Medical Mask Permit (Korean version)**

제 1 호	(Manufacturing)		(Product Permit)
[ ] 의약품	[V] 제조판매	품목허가증	
[V] 의약외품	[ ] 수입	(Medical)	
업종	의약외품	업 허가번호 (업신고번호)	1372 / (구)
제품명	닥터벨라비말차단용마스크(KF-AD)	의약품분류	[ ] 전신 [ ] 일반 [ ] 피부 [ ] 신약
원료약품(원자재) 및 분량	별첨	의약품 분류번호	비말차단용 마스크 (32800)
성상	별첨		
제조방법	별첨		
효능 · 효과	별첨		
용법 · 용량	별첨		
사용상의 주의사항	별첨		
포장단위	자사 포장단위		
저장방법 및 사용(유효)기간	밀폐용기, 실온(1~30℃)보관 제조일로부터 36개월		
기준 및 시험방법	별첨		
제조소	자사제조, 디자인주식회사, 대한민국, 경기도 파주시 금곡로 63-27 가동 1층, 2층		
허가조건	유효기한		
<p>「약사법」 제31조·제42조 및 「의약품 등의 안전에 관한 규칙」 제13조제1항·제20조제2항, 같은 규칙 제59조에 따라 위와 같이 허가합니다.</p> <p>내수용 2020. 7. 31</p> <p>경인지방식품의약품안전청장</p> <p>품목기준코드 202005581</p>			

Listed as Medical mask in Korean Ministry of Food and Drug

**고시/공고/알림 (Announcement)**

**보건용마스크·수술용마스크·비말차단용마스크 허가현황**  
(Medical Mask KF-AD Permit Status)

(Index)

품목기준코드: [ ] 품목명: [ ]

(Company) 업체명: 디자인 (Design Co., Ltd.) 등급: 전체

구분: 비말차단용 마스크 (Medical. KF-AD)

• 총 1건

순번	품목기준코드	품목명 Product	업체명	등급	구분
1	202005581	닥터벨라비말차단용마스크(KF-AD)	디자인주식회사		비말차단용 마스크

Dr. Bella Mask (KF-AD) (Design Co., Ltd.)

### 3. Products



## - Test Report and Certificate

### (2) Community (Non-Medical)

#### - FDA Registration

#### CERTIFICATE OF FDA REGISTRATION



HEREBY CERTIFY THAT

DESIGN CO., Ltd.

HAS SUCCESSFULLY COMPLETED  
THE FDA REGISTRATION

FOR  
OWNER/OPERATOR NUMBER: 10077142  
ESTABLISHMENT TYPE: FOREIGN EXPORTER  
MEDICAL DEVICE LISTING NUMBER (MDL/ST):

MDL/ST Product \$10K Class GMP/UDI Device Name  
D415423 LYU Exempt I Yes Disposable Face Mask

FDA US AGENT

IRC USA  
www.IRC-US.com

*Chaine Mack*

PRINCIPAL ENGINEER

CERTIFICATE NO. IRC-DS-20206

**IRC**  
www.IRC-US.com  
Your Partner in Achieving FDA Compliance

#### - TEST REPORT for Community (Non Medical Mask)

**TEST REPORT**

KOTITI No. K2201043103570  
TEST REPORT FOR COMMUNITY (NON-MEDICAL) MASKS  
Date: 1 JUL 2022 Test Date: 1 JUL 2022

Product: Disposable Face Mask  
Material: Non-woven fabric  
Color: White  
Size: Adult  
Model: K2201043103570

Tested By: [Signature]  
Reviewed By: [Signature]  
Approved By: [Signature]

KOTITI Testing & Research Institute

**TEST REPORT**

KOTITI No. K2201043103570  
TEST REPORT FOR COMMUNITY (NON-MEDICAL) MASKS  
Date: 1 JUL 2022 Test Date: 1 JUL 2022

Product: Disposable Face Mask  
Material: Non-woven fabric  
Color: White  
Size: Adult  
Model: K2201043103570

Tested By: [Signature]  
Reviewed By: [Signature]  
Approved By: [Signature]

KOTITI Testing & Research Institute

**TEST REPORT**

KOTITI No. K2201043103570  
TEST REPORT FOR COMMUNITY (NON-MEDICAL) MASKS  
Date: 1 JUL 2022 Test Date: 1 JUL 2022

Product: Disposable Face Mask  
Material: Non-woven fabric  
Color: White  
Size: Adult  
Model: K2201043103570

Tested By: [Signature]  
Reviewed By: [Signature]  
Approved By: [Signature]

KOTITI Testing & Research Institute

**TEST REPORT**

KOTITI No. K2201043103570  
TEST REPORT FOR COMMUNITY (NON-MEDICAL) MASKS  
Date: 1 JUL 2022 Test Date: 1 JUL 2022

Product: Disposable Face Mask  
Material: Non-woven fabric  
Color: White  
Size: Adult  
Model: K2201043103570

Tested By: [Signature]  
Reviewed By: [Signature]  
Approved By: [Signature]

KOTITI Testing & Research Institute

**TEST REPORT**

KOTITI No. K2201043103570  
TEST REPORT FOR COMMUNITY (NON-MEDICAL) MASKS  
Date: 1 JUL 2022 Test Date: 1 JUL 2022

Product: Disposable Face Mask  
Material: Non-woven fabric  
Color: White  
Size: Adult  
Model: K2201043103570

Tested By: [Signature]  
Reviewed By: [Signature]  
Approved By: [Signature]

KOTITI Testing & Research Institute

**TEST REPORT**

KOTITI No. K2201043103570  
TEST REPORT FOR COMMUNITY (NON-MEDICAL) MASKS  
Date: 1 JUL 2022 Test Date: 1 JUL 2022

Product: Disposable Face Mask  
Material: Non-woven fabric  
Color: White  
Size: Adult  
Model: K2201043103570

Tested By: [Signature]  
Reviewed By: [Signature]  
Approved By: [Signature]

KOTITI Testing & Research Institute



### 3. Products

#### - Test Report and Certificate

##### (3) KF-94 (Medical) Mask

#### - FDA Registration



#### - Medical Manufacturing Permit

제 5011 호 (Manufacturing)

[ ] 의약품 [v] 제조판매 품목허가증  
 [v] 의약외품 [ ] 수입 (Product Permit)  
 (Medical)

업종	의약품	업허가번호 : 1 / (구) 0
제품명	비이코보전용마스크(KF94)	의약품분류 : 전분 [ ] 일반 [ ] 신약
원료약품(원자재) 및 분량	별첨	의약품분류번호 : 보건용 마스크 (32200)
성상	별첨	
제조방법	별첨	
효능 · 효과	별첨	
용법 · 용량	별첨	
사용상의 주의사항	별첨	
포장단위	자사 포장단위	
저장방법 및 사용(유효)기간	일회용기, 실온(1~30℃)보관 제조일로부터 36개월	
기준 및 시험방법	별첨	
제조소	자사제조, 주식회사비이코로나, 대한민국, 충청북도 청주시 흥덕구 복산면 복산산단3로 130 1층 일부	
허가조건	유효기간	

「약사법」 제31조·제42조 및 「의약품 등의 안전에 관한 규칙」 제13조제1항·제20조제2항, 같은 규칙 제59조에 따라 위와 같이 허가합니다.

내수용 2020. 6. 29

대전지방식품의약품안전청장

품목기호코드 202004755

#### - MB Filter MSDS

**Material Safety Data Sheet**

**Section I**

Manufacturer's Name Clean & Science	Emergency Telephone Number 82-66-666-7879
Address (Number, Street, City, State, and Zip Code) : #901-1 Trade Center 169-1 Samsung-Dong Kangnam-Ku, SEOUL, KOREA	Telephone Number for Information 82-2-661-0221
Date Prepared : Signature of prepared by :	

Trade Name : QALSO86-94  
 Product Class : Fiber ---- Polypropylene(PP)

CAS No. :  
 Methblown Fabric 100% ---- Polypropylene (PP) 100%

**Section II - Hazardous Ingredients/Identity Information**  
 Hazardous Components (Specific Chemical Identity : Common Name(s)) , OSHA PEL or AGHH TLV Values : Not applicable( NA )

**Section III - Physical/Chemical Characteristics**

Boiling Point	NA	Specific Gravity	<1
Vapor Pressure(mmHg)	NA	Melting Point	NA
Vapor Density( Air = 1 )	NA	Evaporation Rates	NA
Solvability in water : Negligible			
Appearance and Odor : Multi-layer of air filtration media			

**Section IV - Fire and Explosion Hazard Data**

Flash Point(Method Used) : Not applicable	Flammable Limits Not applicable	LEL	UEL
Extinguishing Media : Water spray, CO <sub>2</sub>			
Special Fire Fighting Procedures : Wear self-contained breathing apparatus			
Unusual Fire and Explosion Hazards : Toxic vapors may be released			

#### Section V - Reactivity Data

## 4. Factory Information

### - Location

#### Head Office

Location	Dosan-daero 37-17, Gangnam-gu, Seoul, Korea
Employees	85

#### Factory #1

Location	63-27, Geumgok-ro, Hwasung-si, Gyeonggi-do, Korea
Space	7,000 m <sup>2</sup>
Product	Medical ( KF-AD _ Mask
Employees	90
Capacity	Production Lines : 22 Production Capacity : 60,000,000ea / Month

#### Factory #2

Location	16-10, LS-ro 166beon-gil, Gunpo-si, Gyeonggi-do, Korea
Space	1,000 m <sup>2</sup>
Product	Non-Medical ( Community ) Mask
Employees	40
Capacity	Production Lines : 10 Production Capacity : 20,000,000ea / Month

#### Factory #3

Location	1301, Oksan-myeon, Chenonju-si, Chungcheongbuk-do, Korea
Space	9,000 m <sup>2</sup>
Product	Medical ( KF-94 ) Mask
Employees	100
Capacity	Production Lines : 55 Production Capacity : 80,000,000ea / Month





## 4. Factory Information

### - Factory 1 KF-AD (Medical) Mask



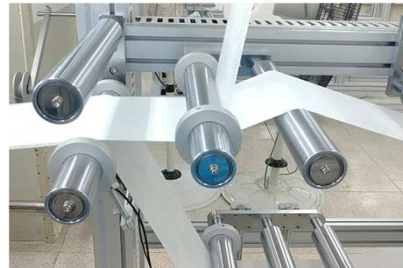


## 4. Factory Information

### - Factory 1 KF-AD (Medical) Mask Production Process



1. Materials feeding



2. Materials compounding



3. Forming



4. Nose wire strap feeding



5. Locating to the divider



6. Cutting



7. Pressing



8. Nose wire strap inserting



9. Ear-loop welding setting



10. Ear-loop welding



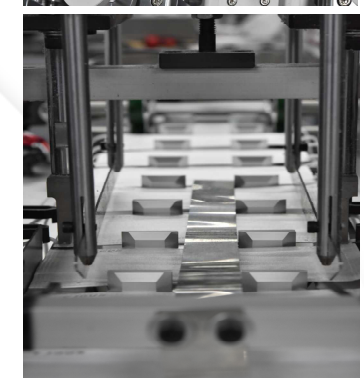
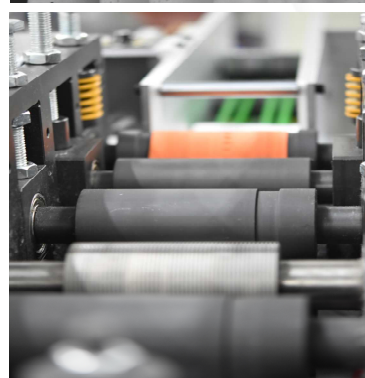
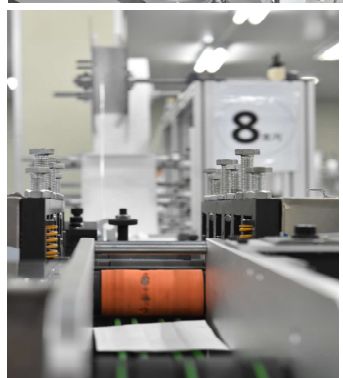
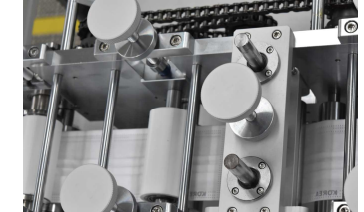
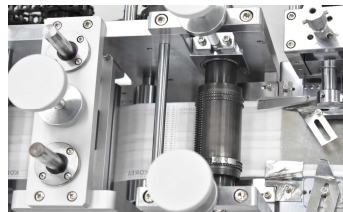
11. Visual Inspection



12. Ear-loop tensile testing

## 4. Factory Information

### - Factory 2 Community (Non-Medical) Mask





## 4. Factory Information

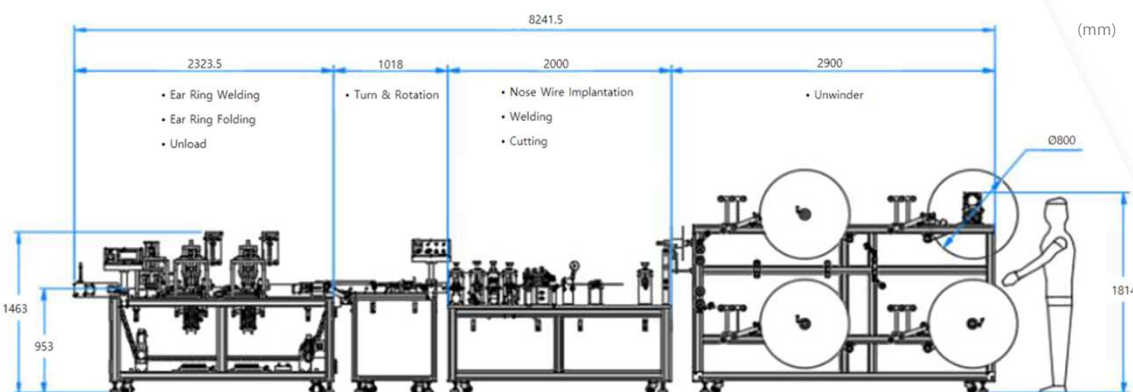
### - Factory 3 KF-94 (Medical) Mask



## 4. Factory Information

### - Production Equipment

Made in Korea



Made in Korea

Category		Specification
Equipment Origin		Made in Korea
Mask Type		1D/2D/3D, KF-80/KF-94/KF-AD/FFP1/FFP ( Medical & Non-medical )
Equipment		1 Body, 2 Ear-loop Welding Surface : AL Profile/ Metal Cover ( Antistatic Coating ) Part : Metal/AL ( Chrome Plating, Anodizing )
Unwinder		Fabric - 4 SETS, Ø800 Nose Wire Strap - 1 SET, Ø800
Welding		1 <sup>st</sup> & 2 <sup>nd</sup> Welding : 20kHz Ultrasonic Welding - 2 SETS Ear-loop Welding : 20kHz Ultrasonic Welding - 4 SETS
Capacity		70 EA/Min 84,000 EA/Day ( Operation time : 20 Hr/Day )
AQL		2.0%
Utility	Air	5 ~ 6 Kg/cm <sup>2</sup> , 500L/min, Ø16 Hose
	Power	220V, 3P (50/60Hz), 17kW
Dimension		8348 x 2646 x 2070 (mm)
Control		PLC Control, 7 Inches Touch PNL



## 5. International Supply Reference

### ■ Shipment to Maryland Government, USA



finance.naver.com/item/news\_read.nhn?article\_id=0004635115&office\_i...

**Design Co., Ltd., exported KN95 mask to the US**  
E-daily | 2020.05.07 15:34

[Reporter Daily Park Hanna] 'Design Co., Ltd. (227100)' announced that it will export KN95 mask, a quarantine product related to the new coronavirus infection (Corona 19), to the United States.



Design Co., Ltd. recently announced on the 7th that it will be selected as a mask (prevention product) supplier to the state of Maryland in the United States to supply goods worth \$3.38 million (about 4 billion won) of KN95 masks. The supplied masks will be supplied to businesses in Maryland, USA.

Recently, Maryland is known to have played a large role in the delivery of diagnostic kits and the supply of this mask, with hundreds of patients a day, resulting in a surge in demand for diagnostic kits in Korea and Samsung SDS providing logistics services.

Among them, secondary battery solution company Design Co., Ltd. products include various battery sharing platforms (IoT, Internet of Thing) devices, smart learning devices, health and beauty care, as well as smart mobility electric kickboards, electric scooters, and electric charging stations. We plan to expand the rechargeable battery solution business to meet specifications and needs in earnest.

Design Co., Ltd. plans to accelerate the promotion of new medical & health related business scheduled for the second half of this year.

Park Han-na (hnpk@edaily.co.kr)

DART 		
design IR 		main text <input type="text" value="2020.05.07 Signed a single sales and supply contract"/>
		attachment <input type="text" value="+Attachment+"/>
Single sales and supply contract		
1. Details of sales and supply contracts	KN95 mask supply contract	
2. Contract details	Conditional agreement	Not applicable
	Confirmed contract amount	4,027,184,000
	Conditional contract amount	-
	Total contract amount (KRW)	4,027,184,000
	Recent Sales (KRW)	21,792,787,902
	Compared to sales (%)	18.48
3. Partner	US State of Maryland	
-Recent Sales (KRW)		-
-major bussiness		-
-Relationship with the company		-
-Whether the company has implemented the same contract for the past 3 years		Not applicable
4. Sales and Supply Area	USA	
5. Contract Period	start date	2020-05-05
	End date	2020-05-30

# Why Design ?

- ✓ **A Listed Company in KOSDAQ ( Korean Stock Exchange Market )**
- ✓ **Made in Korea**
- ✓ **Strategic Investment in Production Facilities**
- ✓ **Stable Supply Capacity for the Korean Local Customers**
- ✓ **International Supply Reference**



# Thank you !

Design Co., Ltd.



**Head Office**

Dosan-daero 37-17, Gangnam-gu, Seoul

**Factory #1 ( Medical, KF-AD Mask )**

63-27, Geumgok-ro, Hwasung-si, Gyeonggi-do, Korea

**Factory #2 ( Non-Medical, Civil-use Mask )**

16-10, LS-ro 166beon-gil, Gunpo-si, Gyeonggi-do, Korea

**Factory #3 ( Medical, KF-94 Mask )**

1301, Oksan-myeon, Chenonju-si, Chungcheongbuk-do, Korea

**Contact**

**Wyman Lee / Sales Representative / Director**

E. wyman@kokiripower.com

M. +82 10 6247 7516

**Isaac Cho / Sales EVP**

E. isaac.cho@kokiripower.com

M. +82 10 8330 4163

