



FILTERING FACE MASKS



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Quality Insistence
Customers Satisfaction
New Technical Development
Quick Response

**(£**2**7**9**7** EN 149:2001+A1:2009

**✓** ODOR PROOF

**☑** DUST PROOF

**SMOKE PROOF** 

**☑** TOXICITY PROOF

# **TECHNICAL INFORMATION**

Technical information for FFP1 NR D					
Total Inward leakage	< 22%				
Penetration	< 20%				
Carbon dioxide content of inhalation air (%)	<1%				
Inhalation resistance 30 l/min (mbar)	< 0.6 mbar				
Inhalation resistance 95 l/min (mbar)	< 2.1 mbar				
Exhalation resistance 160 l/min (mbar)	< 3 mbar				
Protection	Non-toxic, low to average toxicity solid and liquid aerosols				
Application	Wood, cement, iron steel mining, textile, glass and oils				
Assigned Protection Factor	4 X APF or 4.5 X MAC/OEL/TLV				

Technical information for FFP2 NR D				
Total Inward leakage	< 8%			
Penetration	< 6%			
Carbon dioxide content of inhalation air (%)	< 1%			
Inhalation resistance 30 l/min (mbar)	< 0.7 mbar			
Inhalation resistance 95 l/min (mbar)	< 2.4 mbar			
Exhalation resistance 160 l/min (mbar)	< 3 mbar			
Protection	Non-toxic, low to average toxicity solid and liquid aerosols			
Application	Silica, asbestos, lead, iron and zinc fumes, chromium sulfuric and misc and oils			
Assigned Protection Factor	10 X APF or 12 X MAC/OEL/TLV			

Technical information for FFP3 NR D				
Total Inward leakage	< 2%			
Penetration	<1%			
Carbon dioxide content of inhalation air (%)	<1%			
Inhalation resistance 30 I/min (mbar)	< 1 mbar			
Inhalation resistance 95 I/min (mbar)	< 3 mbar			
Exhalation resistance 160 I/min (mbar)	< 3 mbar			
Protection	Non-toxic, to average toxicity, high toxicity solid and liquid aerosols			
Application	Asbestos fiber, cadmic, arsenic , lead, nickel, chromium and oils			
Assigned Protection Factor	20 X APF or 50 X MAC/OEL/TLV			



Meet the requirement of the Personal Protective Equipment Regulation (EU)2016/425 PPE's controlled by BSI (CE 2797)

Test with particles between 0.2 μm - 2 μm

MAC = Maximum Admissible Concentration

OEL = Occupational Exposure Limit

TLV = Threshold Limit Value

APF = Assigned protection factors

# **APPLICATION**











- ◆ Agriculture
- ◆ Construction Industry
- ◆ Metalworking and Mechanical engineering
- ◆ Motor vehicle
- ◆ Painting and Decorating
- ♦ Welding hazards
- ◆ Woodworking hazards

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# **VERTICAL FOLD FLAT PLEATING DUST / MIST MASK**

The patented central pleated filter offers additional surface area for maximum efficiency and extremely low breathing resistance.



Super Low Resistance

Environmentally Friendly Use recycled packaging



### PF3020 FFP2 NR D PF3230 FFP3 NR D

#### SPECIFICATIONS

- · The patented pleated filter offers extremely low breathing resistance.
- · Low breathing resistance for more comfortable feel to wearer.
- · Hidden adjustable nose clip and soft nose foam provide a comfortable & custom fit.
- · Easy adjustable buckle for a perfect fit.
- · Vertically Foldable design for easy carry and packed. individually to avoid
- · Apply latex free material to avoid irritation.
- · Conforms to EN149:2001+A1:2009.

#### PACKING

1 pc / 20 pcs / 400 pcs / 3.40'



















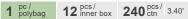


## PF3021 FFP2 NR D PF3231 FFP3 NR D

### SPECIFICATIONS

- · The patented pleated filter offers extremely low breathing resistance.
- · Low breathing resistance for more comfortable feel to wearer.
- · Hidden adjustable nose clip and soft nose foam provide a comfortable & custom fit.
- · Easy adjustable buckle for a perfect fit.
- · Advanced low resistant exhalation valve reduces hot air buildup and easy breath in
- · Vertically Foldable design for easy carry and packed individually to avoid contamination.
- · Apply latex free material to avoid irritation.
- · Conforms to EN149:2001+A1:2009.

#### PACKING





















	FFP2 NR D		FFP3 NR D	
Product code	PF3020	PF3021	PF3230	PF3231
Exhalation Valve				
Nose Bridge		•	•	•
Face Seal Foam		•		•
Active Carbon				
Head Strap	•		•	•



# 3D FOLD FLAT PLEATING **DUST / MIST MASK**

- Patent Protected
- Super Low Resistance
- Environmentally Friendly Use recycled packaging



The patented central pleated filter offers additional surface area for maximum efficiency and extremely low breathing resistance.

## PF5020 FFP2 NR D PF5230 FFP3 NR D

#### SPECIFICATIONS

- · The patented pleated filter offers extremely low breathing resistance.
- · Hidden adjustable nose clip and soft nose foam provide a comfortable & custom fit.
- · Adjustable clip on strap for a secure seal.
- · Foldable design for easy carry and packed individually to avoid contamination.
- · 3D design provide more room for wearers to breathe and accommodates greater facial movement
- · Apply latex free material to avoid irritation.
- · Conforms to EN149:2001+A1:2009

#### PACKING

1 pc / 20 pcs / 400 ctn 3.97

















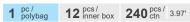


## PF5021 FFP2 NR D PF5231 FFP3 NR D

#### **I SPECIFICATIONS**

- · The patented pleated filter offers extremely low breathing resistance.
- · Hidden adjustable nose clip and soft nose foam provide a comfortable & custom fit.
- · Adjustable clip on strap for a secure seal.
- · Advanced low resistant exhalation valve reduces hot air buildup and easy breath in hot/humid environments.
- Foldable design for easy carry and packed individually to avoid contamination.
- · 3D design provide more room for wearers to breathe and accommodates greater
- Apply latex free material to avoid irritation.
- Conforms to EN149:2001+A1:2009.

#### PACKING

















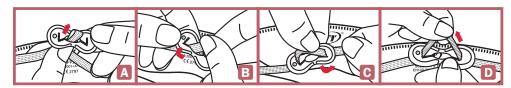




	FFP2 NR D		FFP3 NR D	
Product code	PF5020	PF5021	PF5230	PF5231
Exhalation Valve		•		•
Nose Bridge	•	•	•	•
Face Seal Foam	•	•	•	•
Active Carbon				
Head Strap	•		•	•



# 3D FOLD FLAT **DUST / MIST MASK**



Self-assembling adjustable clip for FFP1 and FFP2 masks.

### 5010 FFP1 NR D **5020 FFP2 NR D**

#### SPECIFICATIONS

- · Hidden adjustable nose clip and soft nose foam provide a comfortable & custom fit.
- · Adjustable clip on strap for a secure seal.
- · Foldable design for easy carry and packed individually to avoid contamination.
- · 3D design provide more room for wearers to breathe and accommodates greater facial movement.
- · Apply latex free material to avoid irritation.
- · Conforms to EN149:2001+A1:2009.

#### PACKING



















### **5011 FFP1 NR D 5021 FFP2 NR D**

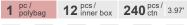
#### SPECIFICATIONS

- · Hidden adjustable nose clip and soft nose foam provide a comfortable & custom fit.
- · Adjustable clip on strap for a secure seal.
- · Foldable design for easy carry and packed individually to avoid contamination.
- · 3D design provide more room for wearers to breathe and accommodates greater facial movement.
- · Apply latex free material to avoid irritation.
- · Advanced low resistant exhalation valve reduces hot air buildup and easy breath in hot/humid environments.
- Conforms to EN149:2001+A1:2009.

#### PACKING











## 5111 FFP1 NR D 5121 FFP2 NR D









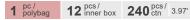




#### SPECIFICATIONS

- · Hidden adjustable nose clip and soft nose foam provide a comfortable & custom fit.
- · Adjustable clip on strap for a secure seal.
- · Foldable design for easy carry and packed individually to avoid contamination.
- · 3D design provide more room for wearers to breathe and accommodates greater facial movement.
- · Apply latex free material to avoid irritation.
- · Advanced low resistant exhalation valve reduces hot air buildup and easy breath in hot/humid environments.
- · Covered with active carbon pre-filter against nuisance level organic vapors.
- · Conforms to EN149:2001+A1:2009.

#### PACKING

















### 5230 FFP3 NR D

#### SPECIFICATIONS

- · Hidden adjustable nose clip and soft nose foam provide a comfortable & custom fit.
- · Adjustable clip on strap for a secure seal.
- · Foldable design for easy carry and packed individually to avoid contamination.
- · 3D design provide more room for wearers to breathe and accommodates greater facial movement.
- · Apply latex free material to avoid irritation.
- Conforms to EN149:2001+A1:2009.

#### PACKING





















### **5231 FFP3 NR D**

#### SPECIFICATIONS

- · Hidden adjustable nose clip and soft nose foam provide a comfortable & custom fit.
- Adjustable clip on strap for a secure seal.
- · Foldable design for easy carry and packed individually to avoid contamination.
- · 3D design provide more room for wearers to breathe and accommodates greater facial movement.
- Apply latex free material to avoid irritation.
- Advanced low resistant exhalation valve reduces hot air buildup and easy breath in hot/humid environments.
- Conforms to EN149:2001+A1:2009.

#### PACKING

12 pcs/ inner box 240 ctn 3.97'















### 5131 FFP3 NR D

#### SPECIFICATIONS

- · Hidden adjustable nose clip and soft nose foam provide a comfortable & custom fit.
- · Adjustable clip on strap for a secure seal.
- · Foldable design for easy carry and packed individually to avoid contamination.
- · 3D design provide more room for wearers to breathe and accommodates greater facial movement.
- · Apply latex free material to avoid irritation.
- · Advanced low resistant exhalation valve reduces hot air buildup and easy breath in hot/humid environments.
- · Covered with active carbon pre-filter against nuisance level organic vapors.
- · Conforms to EN149:2001+A1:2009.

#### PACKING











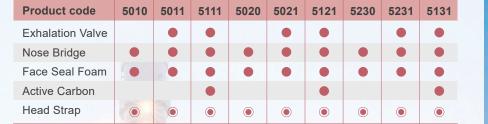












FFP2 NR D

#### **VERTICAL FOLD FLAT** PLEATING MASK FAMILY

PF3020 non valved

PF3021 valved

PF3230 non valved

PF3231 valved

#### 3D FOLD FLAT PLEATING **MASK FAMILY**

PF5020 non valved

PF5021 valved

PF5230 non valved

PF5231 valved

### 3D FOLD FLAT MASK FAMILY

5010 non valved

5011 valved

5111 valved odour

5020 non valved

5021 valved

5121 valved odour 5230 non valved

5231 valved

5131 valved odour

### **CHARACTERISTICS**

FFP1 NR D

### Low breathing resistance:

Filter technology reduces inhalation resistance to bring comfort wear.



#### Exhalation valve:

Reduces hot air build up, and easy breath in hot and humid working



#### Nose bridge:

Adjustable aluminum or plastic nose bridge provide custom seal for different facial sizes.



#### Face seal foam:

Provides a custom fit and secure seal to different facial sizes.



#### Active carbon filter:

Filter against nuisance level organic vapors.



#### Adjustable buckle:

Ensures the best facial seal with lowest leakage



#### Elastic head strap:

FFP3 NR D

Woven elastic head straps welded outside of breathing zone for a comfortable and custom fit.



#### Hanging:

It is able to hang from the neck when not in use.



Meet the Dolomite clogging test to bring better breathing resistance for longer.



D clogging:

Apply latex free material to avoid irritation.



#### Pleated Filtering:

The patented pleated filter offers extremely low breathing resistance.



#### Environmentally friendly:

Use recycled packaging



#### Adjustable clip:

Easy adjustable clip system to offer

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