



# RESPIRATORY PROTECTION Product Guide

### Plus...The Latest Personal Safety Products for Industry, Healthcare, and Consumers



Disposable Respirators



Face and Eye Shields



Medical Face Masks



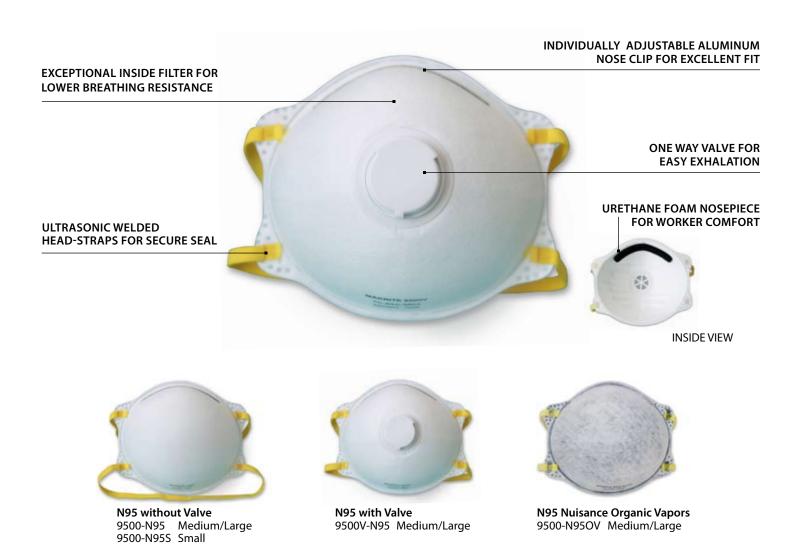
Examination and Safety Gloves



### ♣ N95 NIOSH RESPIRATORS

Our 9500 series of NIOSH approved respirators is the "standard" for all the industries in which these products are used. This is the basic N95 product developed to compete with similar appearing disposable respirators. By far, this cone style of N95 mask is the most widely used mask in all work environments.

It has been designed to easily meet NIOSH's stringent approval requirements for breathing resistance and filtration effciency. Most companies interested in adding N95 respirators to their line of business will select either our 9500 series or the alternative MK910-N95 series as the focal point around which to build a disposable respirator line.



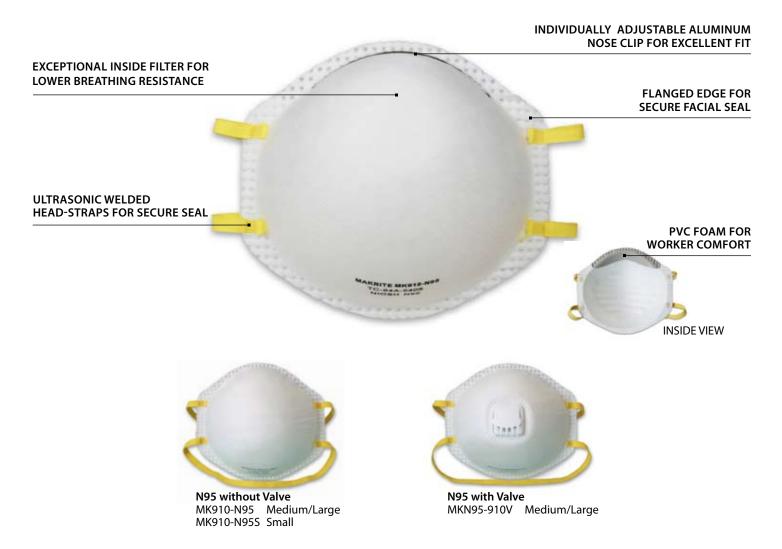
ITEM	DESCRIPTION	SIZE	PACKAGING	APPROVAL
9500-N95*	N95 Cone Respirator	M/L	20 masks/box; 12 boxes/case	TC-84A-5411
9500-N95S*	N95 Cone Respirator	S	20 masks/box; 12 boxes/case	TC-84A-5463
9500V-N95	N95 Cone Respirator with Exhalation Valve	M/L	10 masks/box; 12 boxes/case	TC-84A-5460
9500-N95OV	N95 Cone Respirator (Nuisance Organic Vapors)	M/L	20 masks/box; 12 boxes/case	TC-84A-5525



### ♣ N95 NIOSH RESPIRATORS

Our NEW MK Comfort Series N95 disposable respirator has been designed as an alternative to our 9500 Comfort Series respirators. The primary difference between the two series is that the new MK design has a "flanged" edge all around the full circumferance of the masks as some users prefer this seal to the face. We also choose to change the inside nosepiece to a thinner and longer PVC foam, which also some wearers prefer. Lastly, the MK series has a square shape exhalation valve which was chosen only as a design consideration in order to differentiate this N95 model from our 9500 model.

In essence, it is a matter of user preference whether your customer chooses the original 9500 series N95 respirator or the alternative MK series respirator.



ITEM	DESCRIPTION	SIZE	PACKAGING	APPROVAL
MK910-N95	N95 Cone Respirator N95 Cone Respirator N95 Cone Respirator with Exhalation Valve	M/L	20 masks/box; 12 boxes/case	TC-84A-5408
MK910-N95S		S	20 masks/box; 12 boxes/case	TC-84A-5464
MKN95-910V		M/L	10 masks/box; 12 boxes/case	TC-84A-5409



### ♣ N95 NIOSH RESPIRATORS

Over the past several years, the flat folded style of respirator has become more popular. In Europe, for example, about half the market prefers the flat folded style respirator and the other half the traditional cone style. In North America, about 25% of the market prefers the flat folded style, but this number is growing each year.

It does come down to matter of preference on the part of the ultimate user. Some individuals do prefer the flat folded style as it is more flexible around the edges and can adapt to the wearer's facial features in some cases more easily than the cone style respirator.

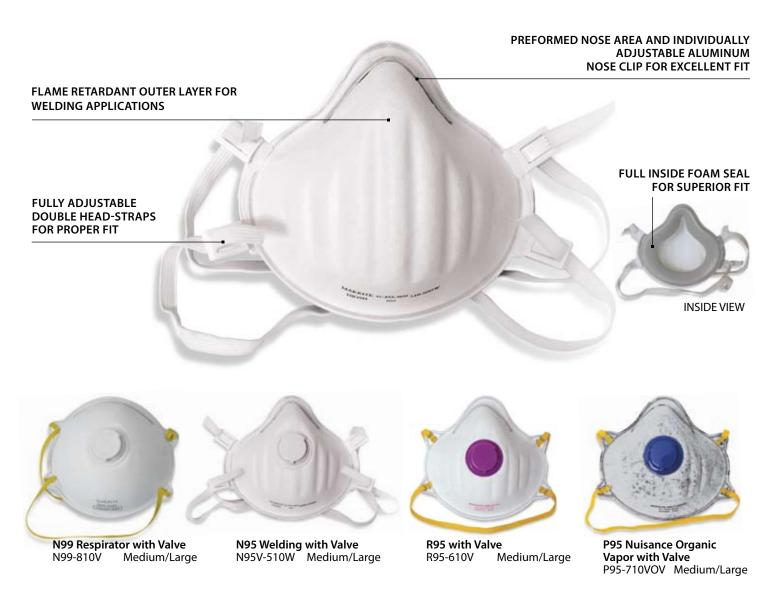


ITEM	DESCRIPTION	SIZE	PACKAGING	APPROVAL
910-N95FMX* N95V-910FM	N95 Cone Respirator N95 Cone Respirator with Exhalation Valve	M/L M/L	20 masks/box; 12 boxes/case 10 masks/box; 12 boxes/case	TC-84A-4541 TC-84A-4542
* Cleared by the	Food and Drug Administration for use as a Surgical	N95 Resp	irator, FDA 510(k): K020474	

## ♣ SPECIALTY N95, N99, R95, P95 RESPIRATORS

The respirators on this page are a specialty category of NIOSH approved respirators because the market size and usage of these products are much less than the standard N95 respirators and these specialty products tend to also be more expensive.

Possibly, the next most important N95 respirator after the standard ones is the welding respirator. This is the product high-lighted below. This product, for example, is still N95 rated, but it is more sophisticated and more expensive that the standard N95 respirators because it is flame retardant, has adustable head straps, and has a full inside foam seal for superior fit. Other specialty products include our N99, R95, and P95 respirators, with and without exhalation valves.



ITEM	DESCRIPTION	SIZE	PACKAGING	APPROVAL
510-N95W	N95 Welding Respirator, adjustable straps N95 Welding Respirator w/Valve, adjustable straps N99 Respirator with Exhalation Valve R95 Respirator with Exhalation Valve P95 Respirator w/Valve (Nuisance Organic Vapors)	M/L	10 masks/box; 12 boxes/case	TC-84A-4652
N95V-510W		M/L	10 masks/box; 12 boxes/case	TC-84A-4654
N99-810V		M/L	10 masks/box; 12 boxes/case	TC-84A-4081
R95-610V		M/L	10 masks/box; 12 boxes/case	TC-84A-5154
P95-710VOV		M/L	10 masks/box; 12 boxes/case	TC-84A-5041

### **CE APPROVED RESPIRATORS** Standard Comfort Series

We manufacture over 40 models of CE APPROVED disposable respirators for the European Community (some highlighted below). These respirators cover all levels of approval including FFP1, FFP2 and FFP3. Some respirators are produced without exhalation valves for work situations that are cool and not difficult to breathe in, while others are produced with our high functioning exhalations valves for use in hot and humid work conditions where a little extra ease of exhaling in required.

The respirators within this range come with a variety of headstraps, with a carbon layer for relief against nuisance odors and can be used with all kinds of head and hearing protection products. A wide range of protection factors are available.

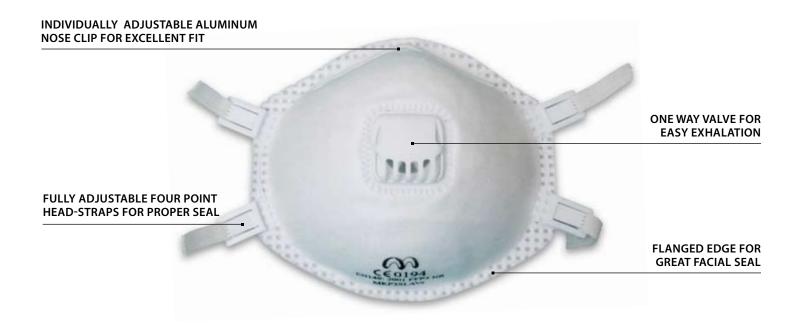


ITEM	DESCRIPTION	SIZE	PACKAGING	APPROVAL
FP1SLw	FFP1 NR Respirator	M/L	20 masks/box; 12 boxes/case	INSPEC # 996
FP1SLAVw	FFP1 NR Respirator with Valve	M/L	10 masks/box; 12 boxes/case	INSPEC # 996
FP1SLOVw	FFP1 NR Respirator (Nuisance Organic Vapors)	M/L	20 masks/box; 12 boxes/case	INSPEC # 1276
FP1VSLOVw	FFP1 NR Respirator w/Valve (Nuis. Organic Vapors)	M/L	10 masks/box; 12 boxes/case	INSPEC # 1276
FP2SLw	FFP2 NR Respirator	M/L	20 masks/box; 12 boxes/case	INSPEC # 996
FP2SLAVw	FFP2 NR Respirator with Valve	M/L	10 masks/box; 12 boxes/case	INSPEC # 996
FP2SLOVw	FFP2 NR Respirator (Nuisance Organic Vapors)	M/L	20 masks/box; 12 boxes/case	INSPEC # 1276
FP2VSLOVw	FFP2 NR Respirator w/Va;ve (Nuis. Organic Vapors)	M/L	10 masks/box; 12 boxes/case	INSPEC # 1276
FP3SLw	FFP3 NR Respirator	M/L	20 masks/box; 12 boxes/case	INSPEC # 1276
FP3SLAVw	FFP3 NR Respirator with Valve	M/L	10 masks/box; 12 boxes/case	INSPEC # 1276
FP3SLAVa	FFP3 NR Respirator with Valve (Adjustable Strap)	M/L	10 masks/box; 12 boxes/case	INSPEC # 1276

## **CE APPROVED RESPIRATORS**

Our new MK series of CE approved respirators have been designed to offer the end-user another option of a cone respirator in addition to our standard/original CE cone respirator. This series of respirator offer all the same great features and benefits of our original CE cone respirator, but in addition, has a flanged sealed edge all around the entire mask. Some wearers of these masks prefer the fit this design offers. With many of these masks, it is a matter of wearer preference.

Disposable respirators like these are most effective when there is a good seal between the mask and the wearer's face.





ITEM	DESCRIPTION	SIZE	PACKAGING	APPROVAL
MKP1SLw	FFP1 NR Respirator	M/L	20 masks/box; 12 boxes/case	INSPEC # 1697
MKP1SLAVw	FFP1 NR Respirator with Valve	M/L	10 masks/box; 12 boxes/case	INSPEC # 1697
MKP2SLw	FFP2 NR Respirator	M/L	20 masks/box; 12 boxes/case	INSPEC # 1697
MK2SLAVw	FFP2 NR Respirator with Valve	M/L	10 masks/box; 12 boxes/case	INSPEC # 1697
MKP2VSLOVw	FFP2 NR Respirator w/Valve (Nuis. Organic Vapors)	M/L	10 masks/box; 12 boxes/case	INSPEC # 1697
MKP3SLAVa	FFP3 NR Respirator with Valve (Adjustable Strap)	M/L	10 masks/box; 12 boxes/case	INSPEC # 1697



The flat fold style of respirator is popular, particularly in Europe. As mentioned previously, it is important to have available to the user a wide variety of styles and types of respirators so that the best possible fit can be selected. Fit is so important when using disposable respirators. The better the fit, the better the protection.

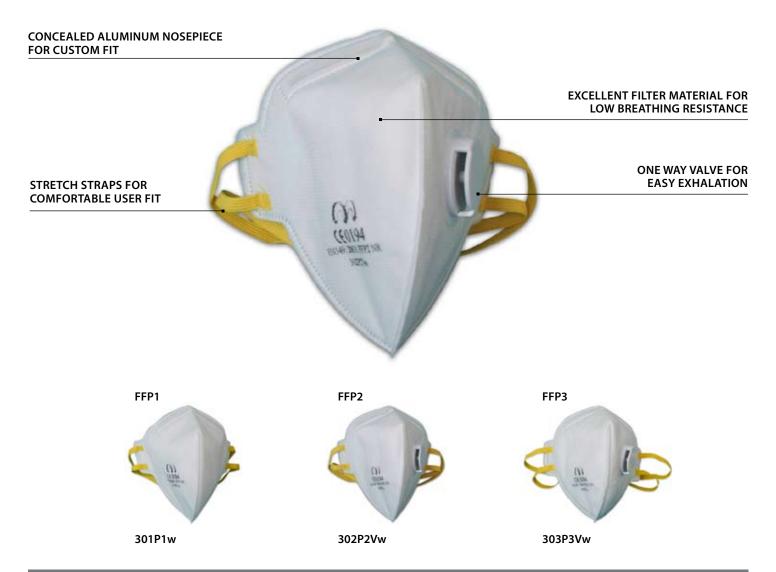
And, along with fit, there has to be comfort. Respirators must be comfortable to wear. The flexible edges of this mask offers a very nice fit as the edges can adjust to the wearers facial features and the softness of the edges provides wearer comfort.



ITEM	DESCRIPTION	SIZE	PACKAGING	APPROVAL
FP1SLFM	FFP1 NR Respirator	M/L	20 masks/box; 12 boxes/case	INSPEC # 1313
FP1VSLFM	FFP1 NR Respirator with Valve	M/L	10 masks/box; 12 boxes/case	INSPEC # 1313
FP1VSLOVFM	FFP1 NR Respirator w/Valve (Nuis. Organic Vapors)	M/L	10 masks/box; 12 boxes/case	INSPEC # 1313
FP2SLFM	FFP2 NR Respirator	M/L	20 masks/box; 12 boxes/case	INSPEC # 1313
FP2VSLFM	FFP2 NR Respirator with Valve	M/L	10 masks/box; 12 boxes/case	INSPEC # 1313
FP2SLOVFM	FFP2 NR Respirator (Nuisance Organic Vapors)	M/L	20 masks/box; 12 boxes/case	INSPEC # 1313
FP2VSLOVFM	FFP2 NR Respirator w/Valve (Nuis. Organic Vapors)	M/L	10 masks/box; 12 boxes/case	INSPEC # 1313
FP3SLFM	FFP3 NR Respirator	M/L	20 masks/box; 12 boxes/case	INSPEC # 1276
FP3VSLFM	FFP3 NR Respirator with Valve	M/L	10 masks/box; 12 boxes/case	INSPEC # 1276

### **CE APPROVED RESPIRATORS**

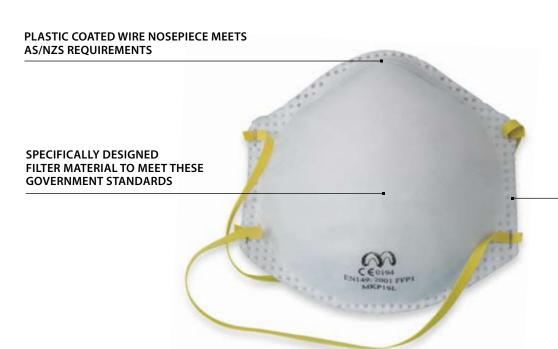
Another version of the foldable respirator is the vertical fold. These lightweight respirators offer clear vision with no possibility of obstructed views. They are available in a wide range of versions as shown in the chart below as well as for protection for a variety of industrial situations.



ITEM	DESCRIPTION	SIZE	PACKAGING	APPROVAL
301P1w	FFP1 NR Respirator	M/L	30 masks/box; 12 boxes/case	INSPEC # 1827
301P1OVw	FFP1 NR Respirator (Nuisance Organic Vapors)	M/L	30 masks/box; 12 boxes/case	INSPEC # 1827
301P1Vw	FFP1 NR Respirator with Valve	M/L	15 masks/box; 12 boxes/case	INSPEC # 1827
301P1VOVw	FFP1 NR Respirator w/Valve (Nuis. Organic Vapors)	M/L	15 masks/box; 12 boxes/case	INSPEC # 1827
302P2w	FFP2 NR Respirator	M/L	30 masks/box; 12 boxes/case	INSPEC # 1827
302P2OVw	FFP2 NR Respirator (Nuisance Organic Vapors)	M/L	30 masks/box; 12 boxes/case	INSPEC # 1827
302P2Vw	FFP2 NR Respirator with Valve	M/L	15 masks/box; 12 boxes/case	INSPEC # 1827
302P2VOVw	FFP2 NR Respirator w/Valve (Nuis. Organic Vapors)	M/L	15 masks/box; 12 boxes/case	INSPEC # 1827
303P3w	FFP3 NR Respirator	M/L	30 masks/box; 12 boxes/case	INSPEC # 1827
303P3Vw	FFP3 NR Respirator with Valve	M/L	15 masks/box; 12 boxes/case	INSPEC # 1827

### OTHER COUNTRY APPROVED RESPIRATORS

In addition to NIOSH and CE approved respirators, we have a number of other governments approvals in Australia and Japan. The respirators below are the ones that are most popular in these markets. For any company interested in building a disposable respirator line in these countries, then these masks would form the core around a line can be developed. We would be pleased to develop other respirator models for these countries should any customer wish to do so. New Zealand uses the approvals of Australia.



**FLANGED EDGE FOR GREAT FACIAL SEAL** 



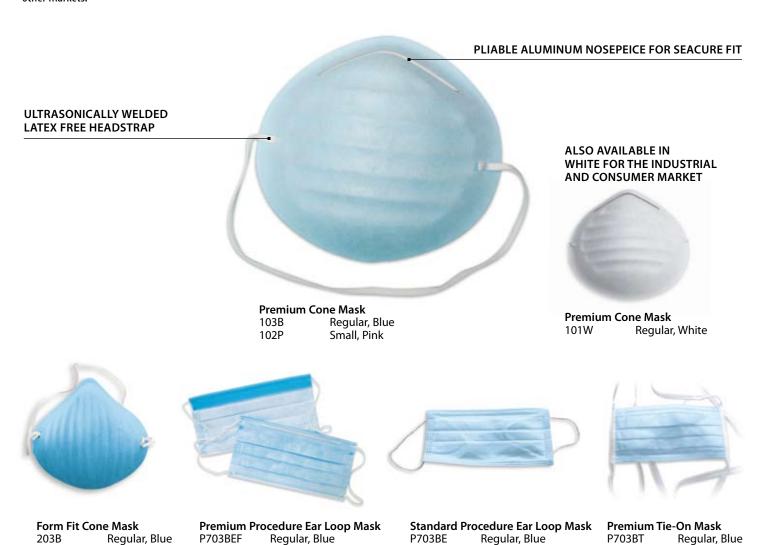




ITEM	DESCRIPTION	SIZE	PACKAGING	APPROVAL
MKP1SL	AS/NZS FFP1 NR Respirator AS/NZS FFP1 NR Respirator with Valve AS/NZS FFP2 NR Respirator AS/NZS FFP2 NR Respirator with Valve JPS Respirator JPS Respirator with Valve	M/L	20 masks/box; 12 boxes/case	AS/NZS 1716:2003
MKP1SLAV		M/L	10 masks/box; 12 boxes/case	AS/NZS 1716:2003
MKP2SL		M/L	20 masks/box; 12 boxes/case	AS/NZS 1716:2003
MK2SLAV		M/L	10 masks/box; 12 boxes/case	AS/NZS 1716:2003
MAR001-DS2		M/L	20 masks/box; 12 boxes/case	JPS TM 358
MAR001-DS2V		M/L	10 masks/box; 12 boxes/case	JPS TM 358

### MEDICAL FACE MASKS

Medical and dental face masks (usually not approved by any government agency) are used not only in these industries, but also in a variety of other markets, including the industrial safety market. For example, these masks are widely use in the food service industry, agriculture, laboratories, the do-it-yourself market and many other markets. Typically these masks are lightweight, disposable and inexpensive. These masks also offer our industrial customers a based of expanding sales into other markets.



ITEM	DESCRIPTION	SIZE	PACKAGING
103B	Premium Cone Mask, Blue	M/L	50 masks/box; 10, 12 or 20 boxes/case
102P	Premium Cone Mask, Pink	S	50 masks/box; 10, 12 or 20 boxes/case
101W	Premium Cone Mask, White	M/L	50 masks/box; 10, 12 or 20 boxes/case
203B	Form Fit Cone Mask, Blue	M/L	50 masks/box; 10, 12 or 20 boxes/case
202P	Form Fit Cone Mask, Pink	S	50 masks/box; 10, 12 or 20 boxes/case
P703BEF	Premium Procedure Ear Loop Mask, Blue	M/L	50 masks/box; 10, 12 or 20 boxes/case
P702PTF	Premium Procedure Ear Loop Mask, Pink	S	50 masks/box; 10, 12 or 20 boxes/case
P703BE	Standard Procedure Ear Loop Mask, Blue	M/L	50 masks/box; 10, 12 or 20 boxes/case
P702PE	Standard Procedure Ear Loop Mask, Pink	S	50 masks/box; 10, 12 or 20 boxes/case
P703BT	Premium Tie-On Mask, Blue	M/L	50 masks/box; 10, 12 or 20 boxes/case
P702PT	Premium Tie-On Mask, Pink	S	50 masks/box; 10, 12 or 20 boxes/case

P703PE

Regular, Pink

P702PT

Regular, Pink

202P

Small, Pink

P702BTF

Regular, Pink

## FACE AND EYE SHIELDS, EYE PROTECTION



EAR LOOP MASK WITH EYE SHIELD

- Combination flat mask and shield
- Optical grade shield, distortion-free
- Anti-fog coated shield
- High filtration mask / latex free
- Offers eye protection against splashes
- Comfortable foam band on top of shield

Item No. Strap Style Packaging 3100 Ear Loop 25/box; 4 boxes/case



**CONE MASK WITH EYE SHIELD** 

- Cone style mask and shield
- With same high quality features as our no. 3100
- For those that prefer the cone style mask
- Also available with extended shield
- Colors: blue and pink

Item No. Packaging Blue-single band 25/box; 4 boxes/case 3400 3410 Pink (not shown) 25/box; 4 boxes/case



#### **ECONOMY TIE-ON MASK/SHIELD**

- Shipped direct from China factory
- Latex-free / optically clear
- Very economical
- Ear loop straps available

Item No. Strap Style **Packaging** EP703BT Tie On 50/box: 4 boxes/case EP703BE Ear Loop 50/box; 4 boxes/case (not shown)



**EAR LOOP MASK WITH EXTENDED EYE SHIELD** 

- Combination flat mask with extended shield
- Offers extra protection from splashes
- With same high quality shield and mask features as our no. 3100
- Available with tie-on straps

Item No. Strap Style **Packaging** 3300 Ear Loop 25/box; 4 boxes/case Tie-On Strap 25/box; 4 boxes/case 3310 (not shown)



**FULL FACE SHIELD** 

- Designed to offer maximum protection for the entire face
- Face mask should be used under the shield
- Easily fits over glasses and masks
- Adjustable Velcro headband or stretch band
- Available in full or half shield

Item No. **Shield Style** Packaging Full Shield 4000 25/box; 4 boxes/case Half Shield 4100 25/box; 4 boxes/case (not shown)



#### **SAFETY GLASSES**

- Made of lightweight polycarbonate material
- Rubber temple tips
- Also available without rubber temple tips (S3210S and S4110S)

Item No. Style **Packaging** S2510S Clear 12/box Clear (not shown) S3210S 12/box S4110S Clear (not shown) 12/box





### **EAR LOOP MASK WITH** ANTI-GLARE EXTENDED EYE SHIELD

- Virtually glare-free
- Combination flat mask with extended shield
- High filtration mask
- Available with tie-on straps

Item No. Strap Style **Packaging** 3300-AG 25/box; 4 boxes/case Ear Loop 3310-AG Tie-On Strap 25/box; 4 boxes/case





#### ANTI-GLARE FULL FACE SHIELD

- Anti-glare shield
- Designed to offer maximum protection for the entire face
- Easily fits over glasses and masks
- Adjustable Velcro headband or stretch band
- Available in full or half shield

Item No. Shield Style Packaging 4000-AG Full Shield 25/box; 4 boxes/case Half Shield 25/box; 4 boxes/case 4100-AG (not shown)



#### **SAFETY GOGGLES**

- PVC body with clear anti-fog polycarbonate lens and elastic headband (frame is green)
- Direct vent for protection against dust and flying debris
- Fits conveniently over most prescription eyewear

Item No.

12/box or bulk pack 200/case 221501



### **EXAM AND SAFETY GLOVES**



#### **POWDERED LATEX EXAM GLOVES**

- Made from natural latex rubber
- Excllent flexabiltiy and tear resistance
- Biodegradable and environmentally friendly
- Popular in all markets

Item No. Size XS, S, M, L, XL PP2328 PP509 Smooth Textured Natural Textured Blue PB509

Packaging: 100/box; 10 boxes/case



#### **POWDERED VINYL EXAM GLOVES**



- Made from Polyvinyl Chloride (PVC)
- Extra soft feel provides greater comfort
- Good chemical resistance to acids and alkalis.
- Tear resistant

Item No. VP2329 Size XS, S, M, L, XL VB2329 Blue

Ivory

Packaging: 100/box; 10 boxes/case



#### **POWDER-FREE LATEX EXAM GLOVES**



- Made from natural latex rubber
- Excllent flexabiltiy and tear resistance
- Biodegradable and environmentally friendly
- Popular in all markets

Item No. Size XS, S, M, L, XL PF208 Smooth PF509 Textured Natural PF509F PF309 Textured Blue Finger Textured

Packaging: 100/box; 10 boxes/case



#### POWDER-FREE VINYL **EXAM GLOVES**





- Made from Polyvinyl Chloride (PVC)
- Extra soft feel provides greater comfort
- Good chemical resistance to acids and alkalis.
- Tear resistant

Item No. Size XS, S, M, L, XL

VF208 Clear VB208 Blue VI208 lvory VG208 Green VR208 Pink VV208 Violet

Packaging: 100/box; 10 boxes/case



#### NITRILE POWDER-FREE **TEXTURED EXAM GLOVES**





- Made from synthetic rubber
- Great tactile strength and dexterity
- The best alternative for latex sensitive individuals
- Excellent barrier properties

Item No. Size XS, S, M, L, XL NT509 NW509 White NV509 Violet

Packaging: 100/box; 10 boxes/case



#### **BLACK POWDER-FREE** LATEX EXAM GLOVES



- Made from natural latex rubber
- Chlorinated powder-free treatment to minimize contaminants
- Great for tattoo, auto and beauty industries

Size XS, S, M, L, XL BF509

Black

Packaging: 100/box; 10 boxes/case

Also available: Black Powder-Free Nitrile Exam Gloves



#### LATEX HIGH RISK SAFETY GLOVES

- Extra thick (9 mil) and long (11.5") to provide extra protection in high risk environments
- Suitable for emergency medical service, paramedic, critical care environment, police departments, and fire departments
- Available in lightly powdered, powder-free, smooth and textured surfaces



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LENGTH (mm/in	0	290/11,5
THICKNESS (mm/in)	CUFF	0.16/.0065
	PALM	0.21/.0085
	FINGERTIP	0.27/.0110
WEIGHT (+/-1 g	r) S,M,L,XL	12,13,14,15 (gr)

#### **Lightly Powdered Smooth Surface**

Item No. Size EP 608-S Small EP 608-M Medium EP 608-L Large EP 608-XL Extra Large

Packaging: 50/box; 10 boxes/case

#### **Powder-Free Textured Surface**

Item No. Size EP 509-S Small EP 509-M Medium EP 509-L Large EP 509-XL Extra Large

Packaging: 50/box; 10 boxes/case

### PHYSICAL PROPERTIES

IN ACCORDANCE TO	Tensile Strength Mpa(Minimum)		Elonga @ Break 9	
IN ACCORDANCE TO	Unaged	Aged	Unaged	Aged
ASTM D 3578-01	8 Mpa	14 Mpa	650%	500%
EN 455-2-2000 UL	Force at	Break	Unaged	9N
EN455-22000 UL	N (N	(in)	Aged	6 N



### 6 IDEAS TO BUILD YOUR BUSINESS

#### 1. Private Brand Packaging

Most of our customers decide to market our products in their own private brand packaging. This means that the imprint on the respirator itself (for NIOSH, CE approved respirators, etc.) will have their company name on the mask. In addition, the smaller inner boxes holding the masks will also be in your company's packaging and the outer shipping carton will also have your company's own identification. This all is designed to promote your brand and company information. With private brand packaging, the only place where the end user can obtain these products is from the information on the packaging.

#### 2. Other Packaging Options

All of our face masks and many of our other products are are offered in a variety of packaging options including: blister cards, clam shells, polybags with header cards, and in any other unique packaging ideas that you require. This is in addition to our standard bulk packaging as indicated in this catalog.

#### 3. Technical Support

We are your technical support team. Technical questions will be answered within a maximum of 24 hours.

#### 4. Custom Designed Products

We can work with you to design face masks that meet the needs of a particular user group or market. This might entail changing the shape of the mask, or reconfiguring the head-straps, or adjusting any of the other product components. If required, we will also submit the redesigned product to the appropriate government agency for approval. Any products that are designed with a customer are the exclusive products of that customer.

#### 5. Marketing Support

We support our customers in many ways that include:

- \* product training programs
- \* product pictures
- \* catalog preparation
- \* strategic discussions

#### 6. Exclusive Arrangements

We are pleased to work with you on an exclusive basis for either products and/or geographic territories. We are very flexible and can consider any type of exclusive arrangement.



### **FACE MASK MANUFACTURING FACILITY**



**General Manufacturing View** 







**Quality Control** Inspection Raw Material Input

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### RESPIRATOR CERTIFICATIONS







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