

#### **Selection of Respiratory Protective Equipment**

Respiratory Protective Equipment (RPE), like all other types of Personal Protective Equipment should be used in case technical or procedural measures can not totally exclude exposure to contamination in the ambient air, or the risk of oxygen deficiency. North Safety Products cannot be held liable for the incorrect use or choice of respiratory products. Suggestions on specific items will be made based on information from the user.

Respiratory Protection Equipment can be divided into two main groups:

#### A. FILTERING RESPIRATORS - dependent on the ambient air

The air is cleaned when drawn through the filter. Respirators are not suitable for use in the IDLH environments including oxygen-deficient atmospheres.

#### Subdivision in this group

- Negative pressure filtering devices for instance disposable, half- and full face masks with filters
- Positive pressure filtering devices for instance powered air hoods and masks.

# B. BREATHING APPARATUS (BA) - Independent on the ambient air

The breathing air is supplied from an external source, f.i. compressed air or cylinders. BA may be suitable for use in IDLH environments including oxygen-deficient atmospheres.

#### **Suitable Choice**

Whether a filtering device or breathing apparatus is chosen, depends on criteria like oxygen content, nature and concentration of contamination, mobility of user and the required protection level. The level of protection is expressed in the Protection Factor. Note that filtering respirators should never be used in situations dangerous to life and health.

#### **Protection Factor (PF)**

The PF is a measure of the respirator efficiency and follows from the EN standard - it expresses its ability to protect against dangers. If the PF is 50 this means that the air inhaled through the respirator is 50 times cleaner than the surrounding air. The higher the PF, the better protection can be expected.

#### Occupational Exposure Limit (OEL)

Most individual hazardous substances have been assigned a concentration level, below which RPE is not necessary. Please refer to your local exposure limit sources for specific guidance.

#### In Practice the Protection (PF) is used as Follows:

The PF multiplied by the OEL gives the maximum allowed ambient concentration of the contaminant. Note that in some European countries rules have been established that introduce a so called Assigned Protection Factor (APF). This APF is typically lower than the EN standard PF (Nominal Protection Factor).

PF (Protection Factor)
Multiplicator to find max allowed concentration.
NPF (Nominal Protection Factor)
PF that follows from the relevant EN Standard for the device.
APF (Assigned Protection Factor)
PF relevant to national rules.
OEL (Occupational Exposure Limit)
Concentration connected to a certain chemical substance.

Due to the fact that the APF is not the same in all European countries, only the NPF is mentioned in the brochure.

#### **Workplace Protection Factor**

Multiply the stated figure by the TLV (Threshold Limited Value) of the contaminant you want protection against. Lists are published in each country to find TLV's for most chemicals and aerosols. The value found (APF x TLV) is the maximum concentration the selected respiratory product can be used in.

#### **Warning About Overuse of Filters**

A gas filter is saturated as soon as the penetration of contamination is noticed by the odour or taste. The filter must then be replaced immediately! ABEK filters may not be used after one another in different gas environments. Always use a new filter!

# FILTER FACE PIECES ARE DIVIDED INTO THE FOLLOWING THREE CLASSES:

FFP1	FFP2	FFP3
Offers protection against inert dust such as dust from stone, plaster, grain.	from harmful fine dust such as	Offers protection from toxic fine dust such as from spores, colourants, bacteria.

#### When Is A Dust Filter Saturated?

A dust filter is saturated if the inhalation resistance increases notably. From a hygiene point of view our advice is: replacement daily. Gas filters are saturated when you notice a change of smell or taste

#### What is parts per million (PPM)?

The ratio of the amount of one substance to the amount of another, expressed as a unit of solute dissolved in one million units of solution. It denotes the number of units of one substance relative to one million units of another substance. It may be further expressed in terms of mass-to-mass, volume-to-volume, or another relationship of units of measure.

#### What is immediately dangerous to life or health (IDLH)?

The purpose for establishing this IDLH value was to determine a concentration from which a worker could escape without injury or without irreversible health effects in the event of respiratory protection equipment failure (e.g. contaminant breakthrough in a cartridge respirator or stoppage of air flow in a supplied-air respirator) and a concentration above which only "highly reliable" respirators would be required. In determining IDLH values, the ability of a worker to escape without loss of life or irreversible health effects was considered along with severe eye or respiratory irritation and other deleterious effects (e.g. disorientation or incoordination) that could prevent escape.

#### **Classes and Marking of Filtering Devices**

Particulate filter media is mostly a fine paper type material that filters liquid and solid aerosols. This media can not filter gasses and vapours. Gas/vapour filter media is typically activated carbon, whereby porous carbon flakes bind the contaminant chemically. Activated carbon is chemically impregnated to improve binding of certain groups of chemicals.

To clearly identify which filter media is used the different filter types are marked. The marking consists of a letter and a colour code.

Filter type	Colour code	Applications
P	White	Particulates (Aerosols)
Α	Brown	Organic gasses and vapours with a boiling point > 65�C
AX	Brown	Organic gasses and vapours with a boiling point < 65�C
В	Grey	Inorganic gases and vapours
E	Yellow	Organic acids, acid gasses and generally gaseous acids
K	Green	Ammonia
HG	Red	Mercury vapour
CO	Black	Carbon Monoxide
Reactor P3	Orange	Radioactive iodine, methyl iodide and radioactive particulates

#### **Special Carbon**

North uses top quality Carbon produced from coconut shells. After the activation process an average class 2 filter contains an extremely porous carbon that represent the surface of some 20 football fields.

#### **Number Marking (Classification)**

Particulate filters and devices are marked with the numbers 1, 2 or 3. This refers to the Protection Factors (see Table).

#### GAS FILTERS NEGATIVE PRESSURE

(used with half or full face mask) (EN141)

Filter class	Maximum allowed concentration
1 (low)	0.1 percent by volume or 1000 p.p.m.
2 (medium)	0.5 percent by volume or 5000 p.p.m.
3 (high)	1.0 percent by volume or 10 000 p.p.m.

#### GAS FILTERS POSITIVE PRESSURE

(used with powered air system) (EN12941/12942)

Filter class	r class Maximum allowed concentration	
1 (low)	0.05 percent by volume or 500 p.p.m.	
2 (medium)	0.1 percent by volume or 1000 p.p.m.	
3 (high)	0.5 percent by volume or 5 000 p.p.m.	

Gas filters for Powered Air units are classified into three classes according to the absorption capacity.

Combinations of filter media are possible. For instance an A2P3 filter is a commonly used filter.



No respiratory protection or using the wrong kind of respiratory protection for your application can be extremely dangerous or even fatal. North Safety Products offers a complete range of respiratory protection so that a ready-to-wear solution can be offered for any work situation. North's respiratory protection can be broken down into the following groups: disposable APR masks, half masks, full-face masks, filters, powered air respirators and compressed airline systems.

# Filter Selection Guide

Substance	Filter recommendation
A	
Acetaldehyde	AX
Acetic acid	A-P3
Acetic anhydride	A
Acetone	AX
Acetone cyanhydrin	A-P3
Acetonitrille	A
Acetylene	Supplied air
o-Acetylsalisyclic acid	P3
Acidic gases	EB
Acids (furning concentrated)	E-P3
Acrolein (2-Propenal)	AX
Acrylaldehide	AX
Acrylic acid-esters	A
Acrylonitrile.	A-P3
Alcohal	A
Aldehydes	AX
Aliphatic hydrocarbons	A-P3
Allyl alcohol	A
Allylamine	BE
Allylchloride (3-chloride-1-proper	) AX
Allyl glycidyl ether (AGE)	A
Alaminium	P3
Aluminium compounds	P3
Numinium oxide fume	P3
Arnines	8
2-Amino ethanol	A
Ammonia	K
Amosite	P3
Armyl acetate	A
Antine	A-P 3
Aqueous ammonia	K
Arsenic trioxide	P3
Acsine	В
Asbestos	P3
Asphalt	A-P3
В	
Barium compounds	P3
Banana oil	A
Benzene	A
Benzoe(a)pyrene	, A
Benzyl bromide	A-P3
Benzyl chloride	A-B-P3
Beryllium	P3
Borax	P3
Boric acid	E-P3
Bromine	8-P3
Bromoform	A
Bromomethane	AX
Butan-2-ol	A
n-Butanol	A
2-Butanone	A

Substance Filter	recommendation
2-Butoxyethanol	A
Butyl acetate	A
Butyl acrylate	A
Butyl alcohols (butanols)	A
Butyl glycal	Α
Butylamine	K
Butyric sold	A-P3
C	
Cadmium inorganic	P.3
Cadmium sulphide	P3
Caesium hydroxide	P3
Calcium carbonate	P3
Calcium flydroxide	PS
Calcium oxide	P3
Calcium oxoe Calcium silicate	
	P.3
Camphor	A-P3
Carbolic acid	A-P3
Carbon black	P3
Carbon dioxida	Supplied air
Carbon disulfide	8
Carbon monoxide	00
Carbon oxysulfide	B
Carbon tetrachloride	A
Caustic soda	P3
Chlorobromomethane	AX
Chlorine	B-P3
Chlorine dioxide	8
Chloromethane	Supplied air
Chloraform	AX
Chioropicrin	A
Chloroprene	AX
Chlorosulfonic acid	B-P3
Chlorotoluene	A-P3
Chromium	P3
Chronium oxide	P3
Chrysotile	P3
Copper	P3
Creosote	A-P3
Cresols	A
Crocidolite	P3
Crotonaldehyde	A
Cyanogen chloride	8
Cyclohexane	A
Cyclohexanol	A
Cyclohexanone	A
D	
DD-products (Desmodur-Desmophen)	A-P3
DDT dust	P3
Decahydrate	P3
A Part of the Control	
Diacetonel alcohol	A

1,2-Dibromoethane

Substance	Filter recommendation
1,2-Dichloroethane	A
1,2-Dichloroethylene	AX
Dichloromethane	AX
1,2-Dichloropropane	A
Diesel fuel	A
Diethylamine	K
Diethylaminoethanol	A
Diethyl ether	A
Diethyl oxide	A
Diethylene dloxide	Supplied air
Diethylene ether	Supplied air
Dimethylformamide (DMF)	A
Dimethyl hydrazine	Supplied air
Dimethylaldenyde	Supplied air
Dimethylamine	Supplied air
1.4-Dioxane	A
Diphenyl	A-P3
Dust	P3
E	6.0
Endrin	A-P3
Epichlorhydrin	A-P3
Epoxyethane	Supplied air
Esters	AX
Ethanol	A
Ethanolamine	
	A
Ethers	AX
Ethylaminė	K
Ethyl acetate	A
Ethyl acrylate	A
Ethyl alcohol (ethanol)	A
Ethyl benzene	A
Ethyl bromide	Supplied air
Ethyl butyl ketone	A
Ethylene chloride	A
Ethylene dichloride	A
Ethylene oxide (T-gas)	AX
Ethyl formate	AX
F	
Fluorine	Supplied air
Formaldehyde (formalin)	B-P3
Formic acid.	E-P3
Fortural	A
Furfuraldehyde	A
Furfural alcohol	A
G	
Gasoline	A
Glycerine trinicate	Supplied air
Glycole	Supplied air
Gycole dinitrate	Supplied air
н	
Halothane	Supplied air
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Halogenated hydrocarbons

Substance Filter	r recommendation
	B-P3
	B-P3
Halogens	8
Hexachlorocyclohexane	A-P 3
Heptane	A
Hexane	Supplied air
Hexanone	A
2-Hexanone	Supplied air
Hydrazine	K-P3
Hydrocarbons	A
Hydrochlorid acid	8-P3
Hydrofluoric acid (hydrogen fluoride)	E-P3
Hydrogen bromide	B-P3
Hydrogen chloride	B-P3
Hydrogen cyanide	8
Hydrogen halogenides	B-P3
Hydrogen selenide	B-P 3
Hydrogen sulfide	В
l.	
Insecticide (organic)	A-P3
lodine	B-P 3
lodine (radioactive)	Reactor P3
lodomethane	AX
lodomethane (radioactive)	Reactor P3
Iron oxide fumes	P3
Iron pentacarbonyl	CO-P 3
Isocyanates (organici)	A-B
Isopropyl alcohol	A
isopropyl ether	A
K	
Ketenes	Supplied air
Kelones	A
L	
Lead fumes	P3
Liquid Petroleum Gas (LPG)	Supplied air
M	ouppied air
Magnesium oxide fumes	P3
Maleic anhydride	A-P3
Mercaptans	8
Mercury compounds	Ho-P3
Mercury vapour	Hg-P3
Metal furnes	P3
Methyl alcohol (methanol)	AX
Methyl bromide	AX
Methyl chloride	Supplied air
Methyl chloroform	A A
Methylene chloride	AX
Annual Section Control of the Contro	A
Methyl ethyl ketone (MEK)	
Methyl isobutyl ketone (MEK)	A K
Methylamine Methylamine	
Methylcyclohexane	Supplied air
Methylcyclohexanol	Supplied air

	Filter recommendation
Methylcyclohexanone	Supplied air
Morpholine	A
N	
Naphtalone	A-P3
Naphta petroleum	A
Nickel carbonyl	Supplied air
Nickel tetracarbonyl	00-P3
Nitric acid	A-B
Nitro benzene	A
Nitro compounds (organic)	A
Nitrogen oxides	NO
Nitroglycerine	Supplied air
Nitromethane	Supplied air
Nitrotoluene	Supplied air
Nitrous fumes	NO
0	
Organic nitro compounds	A
Organic vapours, solvent	A, AX
Ozone	Rector Hg P 3
P	75 - C. O. C.
Paint sprays, vapours	A-P3
Pentachloroethane	A
Pentachlorophenol	A-P3
Perchloroethylene	A
Pesticides	A-P3
Petroleum	A
Phenol	A
Phenyl hydrazine	A
Phosgene	8
Phosphine.	В
Phosphorus trichloride	B-P3
Picric scid	P3
Polychlorinated biphenyl	A-P3
Polyacrylates	A-P3
Potassium cyanide (dust)	B-P3
Propyl alcohol (propanol)	A
Pyridine	A-P3
0	77.3
Quartz	P3
R	7.3
Rhodium metal and fume	P3
Rhodum compounds	P3
S	7.9
Silica amorphous	P3
Sodium flooracetate	P3
Sodium hydroxide	P3
Solvents	A
Stibine Stibine	8-P3
Styrene Sulfur compounds (forming)	A
Sulfur compounds (burning)	E-P3
Sulfur dioxide	E

	Filter recommendation
Sulfur hexafluoride	Supplied air
Sulfur monochioride	B-P3
Sulfor trioxide	P3
Sulfuryl chloride	8
ī	
1,1,2,2-Tetrachloroethane	A
Tetrachloroethylene	A
Tetrachloromethane	A
Tetrahydrofuran	A
T-gas (etylene oxide)	AX
Toluene	A
Tribromomethana	· A
Trichloroethane (TCA)	A
Trichloroethylene (Tri)	A
Trichloromethane	AX
frimethylbenzene	A
Trimethylphosphate	A-P3
Turpentine	A
J	
Uranium compounds	PS
Uretahne (INN)	A-P3
V	
Vanadium pentoxide	P3
Vinyl acetate	A
Vinyl benzene	A
/inyl bromide	A
Vinyl chloride	AX
Vinylidene chloride	AX
Vinyltoluene	A
W	
Martarin	P3
Welding furne	P3
White spirit	A
Wood dust	PS
X .	
Xyleiner	A
r	
Yttrium	P.3
Z	
Zinc chloride	P 3
Zinc chromates	P3
Zinc golde	P3
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Product	RPD1 SH9100	Disp	
Description	FFP1 NR Dust/Mist Respirator		
Physical Properties	A low profile mask offers a better fit with glasses and goggle. A soft inner lining offers more comfort and less irritation. Low breathing resistance increases worker's acceptance. Smooth, pre-stretched head straps offer a good fit and comfort over the head and neck. (Latex free). Contoured adjustable nosepiece offers maximum performance.		
Standards	FFP1 NR EN 149:2001 + A1:2009 SABS Homologation Approval No.: AZ2003/45	()	
Precautions	Do not use in spray-paint operations. Do not use in		
	sandblasting operations. Do not use for protection against asbestos. Do not use when concentrations of contaminant are unknown or immediately dangerous to life or health. Not to be worn with facial hair, i.e. no beards or moustaches.	Uses	
		Pack Size	

# **Disposable Respirators**



Uses	For use against fine respirable non-toxic dust and fibres. For use up to 4.5 X OEL or 4 X APF.
Pack Size	Box of 20

RPD1 SH9250

Product



Box of 20

Description	FFP2 NR Dust/Mist Respirator	
Physical Properties	A low profile mask offers a better fit with glasses and goggle. A soft inner lining offers more comfort and less irritation. Low breathing resistance increases worker's acceptance. Smooth, pre-stretched head straps offer a good fit and comfort over the head and neck. (Latex free). Contoured adjustable nosepiece offers maximum performance.	
Standards	FFP2 NR EN 149:2001 + A1:2009 SABS Homologation Approval No.: AZ2003/47	
Uses	For use against low to average toxic dust, fumes and aqueous mist. For use up to 12 X OEL or 10 X APF.	
Precautions	Do not use in spray-paint operations. Do not use when concentrations of contaminant are unknown or immediately	
	dangerous to life or health. Not to be worn with facial hair, i.e. no beards or moustaches.	

Product	RPD1 SH9250V	
Description	FFP2 NR Dust/Mist Respirator with Valve	
Physical Properties	A low profile mask offers a better fit with glasses and goggle. A soft inner lining offers more comfort and less irritation. Exhalation valve offers comfort and durability. Low breathing resistance increases worker's acceptance. Smooth, prestretched head straps offer a good fit and comfort over the head and neck. (Latex free). Contoured adjustable nosepiece offers maximum performance.	
Standards	FFP2 NR EN 149:2001 + A1:2009 SABS Homologation Approval No.: AZ2003/39	
Uses	For use against fine respirable non-toxic dust and fibres. For use up to 12 X OEL or 10 X APF.	
Precautions	Do not use in spray-paint operations. Do not use when concentrations of contaminant are unknown or immediately dangerous to life or health. Not to be worn with facial hair, i.e. no beards or moustaches.	



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,	Pack Size	Box of 10	



Precautions	Do not use when concentrations of contaminant are unknown or immediately dangerous to life or health. Not to be worn with facial hair, i.e. no beards or moustaches.

Product	RPD1 SH9250CV	
Description	FFP2 NR Active Carbon Respirator with Valve	
Physical Properties	The exhalation valve offers lower breathing resistance for easier breathing which increases worker's acceptance. Activated carbon offers the additional protection against organic gas at nuisance levels. A low profile mask offers a better fit with glasses and goggle. A soft inner lining offers more comfort and less irritation. Smooth, pre-stretched head straps offer a good fit and comfort over the head and neck. (Latex free). Contoured adjustable nosepiece offers maximum performance.	
Standards	FFP2 NR EN 149:2001 + A1:2009 SABS Homologation Approval No.: AZ2003/49	
Uses	For use against low to average toxic dust, fumes and aqueous mist. For use up to 12 X OEL or 10 X APF. For use against organic gases at nuisance levels.	
n — Pack Size	Box of 10	

Product	RPD1 SH9370V		
Description	FFP3 NR Premium Respirator with Valve		
Physical Properties	The exhalation valve offers lower breathing resistance for easier breathing which increases worker's acceptance. Activated carbon offers the additional protection against organic gas at nuisance levels. A low profile mask offers better fit with glasses and goggle. A full facial foam lining offers more comfort and less irritation. Low breathing resistance increases worker's acceptance. Fully adjustab head straps offer a good fit and comfort over the head an neck. Contoured adjustable nosepiece offers maximum performance.	a le	
Standards	FFP3 NR EN 149:2001 + A1:2009 SABS Homologation Approval No.: AZ2012/18		
Uses	For use against average to high toxic dust and fumes aqueous mist. For use up to 50 X OEL or 20 X APF.	Precautions	Do not use in spray-paint operations. Do not use who concentrations of contaminant are unknown or immediate dangerous to life or health. Not to be worn with facial ha
Pack Size	Box of 5		i.e. no beards or moustaches.



RPD1 SH3720
FFP2 NR Dust/Mist Respirator
A low profile mask offers a better fit with glasses and goggle. A soft inner lining offers more comfort and less irritation. Smooth, pre-stretched head straps offer a good fit and comfort over the head and neck. Contoured adjustable nosepiece offers maximum performance.
FFP2 NR EN 149:2001 + A1:2009 SABS Homologation Approval No.: AZ2007/33
For use against low to average toxic dust, fumes and aqueous mist. For use up to 12 X OEL or 10 X APF.
Do not use in spray-paint operations. Do not use when concentrations of contaminant are unknown or immediately dangerous to life or health. Not to be worn with facial hair, i.e. no beards or moustaches.
Box of 20

Pack Size

Product	RPD1 A-501P1	
Description	FFP1 NR Dust/Mist Respirator (Arrow)	
Physical Properties	A low profile mask offers a better fit with glasses and goggle. A soft inner lining offers more comfort and less irritation. Low breathing resistance increases worker's acceptance. Smooth, pre-stretched head straps offer a good fit and comfort over the head and neck. (Latex free). Contoured adjustable nosepiece offers maximum performance.	
Standards	FFP1 NR EN 149:2001 & A1:2009 CE0194 SABS Homologation Approval No.: AZ2010/22	
Uses	For use against fine respirable non-toxic dust and fibres. For use up to 4.5 X OEL or 4 X APF.	
Precautions	Do not use in spray-paint operations. Do not use in sandblasting operations. Do not use for protection against asbestos. Do not use when concentrations of contaminant are unknown or immediately dangerous to life or health. Not to be worn with facial hair, i.e. no beards or moustaches.	





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S.	Pack Size	Box of 20

**Product** 





Box of 20

	Description	FFP2 NR Dust/Mist Respirator (Arrow)
	Physical Properties	A low profile mask offers a better fit with glasses and goggle A soft inner lining offers more comfort and less irritation. Low breathing resistance increases worker's acceptance. Smooth pre-stretched head straps offer a good fit and comfo over the head and neck. (Latex free). Contoured adjustable nosepiece offers maximum performance.
	Standards	FFP2 NR EN 149:2001 & A1:2009 CE0194 SABS Homologation Approval No.: AZ2010/24
	Uses	For use against low to average toxic dust, fumes and aqueou mist. For use up to 12 X OEL or 10 X APF.
	Precautions	Do not use in spray-paint operations. Do not use whe concentrations of contaminant are unknown or immediate
	_	dangerous to life or health. Not to be worn with facial hai

RPD1 A-502P2

Product	RPD1 A-502P2V
Description	FFP2 NR Dust/Mist Respirator with Valve (Arrow)
Physical Properties	A low profile mask offers a better fit with glasses and goggle A soft inner lining offers more comfort and less irritation Exhalation valve offers comfort and durability. Low breathin resistance increases worker's acceptance. Smooth, pre stretched head straps offer a good fit and comfort over the head and neck. (Latex free). Contoured adjustable nosepied offers maximum performance.
Standards	FFP2 NR EN 149:2001 & A1:2009 CE0194 SABS Homologation Approval No.: AZ2010/23
Uses	For use against fine respirable non-toxic dust and fibres. For use up to 12 X OEL or 10 X APF.

Do not use in spray-paint operations. Do not use when





i.e. no beards or moustaches.	Pack Size	Box of 10
concentrations of contaminant are unknown or immediately dangerous to life or health. Not to be worn with facial hair, –		



Uses

**Pack Size** 

	Product	RPD1 SH1201	
	Description	FFP1 NR D Dust/Mist Respirator	
	Physical Properties	A low profile mask offers a better fit with glasses and goggle. A soft inner lining offers more comfort and less irritation. Low breathing resistance increases worker's acceptance. Smooth, pre-stretched head straps offer a good fit and comfort over the head and neck. Contoured adjustable nosepiece offers maximum performance.	
	Standards	FFP1 NR D EN 149:2001 + A1:2009 SABS Homologation Approval No.: AZ2008/57 The Dolomite test is an optional test under norms EN 149: 2001 and respirators that pass this test will provide more comfortable breathing as the Dolomite test is a clogging test.	
Single-use respirator providing protection against solid and liquid aerosols in concentrations up to 4.5 X OEL or 4 X APF.	Precautions	Do not use in spray-paint operations. Do not use in sandblasting operations. Do not use when concentrations of contaminant are unknown or immediately dangerous to life or health. Not to be	
Box of 20		worn with facial hair, i.e. no beards or moustaches.	

Product RPD1 SH2910  Description FFP1 NR Foldable Dust/Mist Respirator  Physical Properties A foldable low profile mask offers a better fit with glasses and goggle. Ease of storage increases life of mask and offers increased savings in usage. A soft inner lining offers more comfort and less irritation. Low breathing resistance increases worker's acceptance. Smooth, pre-stretched head straps offer a good fit and comfort over the head and neck. Contoured adjustable nosepiece offers maximum performance.  Standards FFP1 NR EN 149:2001 + A1:2009 SABS Homologation Approval No.: AZ2003/40  Precautions  Do not use in spray-paint operations. Do not use in sandblasting operations. Do not use for protection against asbestos. Do not use when concentrations of contaminant are unknown or For use against fine respirable non-toxic dust and fits For use up to 4.5 X OEL or 4 X APF.				
Physical Properties  A foldable low profile mask offers a better fit with glasses and goggle. Ease of storage increases life of mask and offers increased savings in usage. A soft inner lining offers more comfort and less irritation. Low breathing resistance increases worker's acceptance. Smooth, pre-stretched head straps offer a good fit and comfort over the head and neck. Contoured adjustable nosepiece offers maximum performance.  Standards  FFP1 NR EN 149:2001 + A1:2009 SABS Homologation Approval No.: AZ2003/40  Precautions  Do not use in spray-paint operations. Do not use in sandblasting operations. Do not use for protection against asbestos. Do not  Uses  For use against fine respirable non-toxic dust and fite	Product	RPD1 SH2910		
Properties  and goggle. Ease of storage increases life of mask and offers increased savings in usage. A soft inner lining offers more comfort and less irritation. Low breathing resistance increases worker's acceptance. Smooth, pre-stretched head straps offer a good fit and comfort over the head and neck. Contoured adjustable nosepiece offers maximum performance.  Standards  FFP1 NR EN 149:2001 + A1:2009 SABS Homologation Approval No.: AZ2003/40  Precautions  Do not use in spray-paint operations. Do not use in sandblasting operations. Do not use for protection against asbestos. Do not  Uses  For use against fine respirable non-toxic dust and fite	Description	FFP1 NR Foldable Dust/Mist Respirator		
SABS Homologation Approval No.: AZ2003/40  Precautions  Do not use in spray-paint operations. Do not use in sandblasting operations. Do not use for protection against asbestos. Do not  Uses  For use against fine respirable non-toxic dust and fith	•	and goggle. Ease of storage increases life of mask and offers increased savings in usage. A soft inner lining offers more comfort and less irritation. Low breathing resistance increases worker's acceptance. Smooth, pre-stretched head straps offer a good fit and comfort over the head and neck. Contoured adjustable nosepiece offers maximum		
operations. Do not use for protection against asbestos. Do not Uses  For use against fine respirable non-toxic dust and file	Standards			
	Precautions			
			Uses	·
		immediately dangerous to life or health. Not to be worn with a facial hair, i.e. no beards or moustaches.	Pack Size	Box of 20



Product	RPD1 SH2920
Description	FFP2 NR Foldable Dust/Mist Respirator
Physical Properties	A foldable low profile mask offers a better fit with glasses and goggle. Ease of storage increases life of mask and offers increased savings in usage. A soft inner lining offers more comfort and less irritation. Low breathing resistance increases worker's acceptance. Smooth, pre-stretched head straps offer a good fit and comfort over the head and neck. Contoured adjustable nosepiece offers maximum performance.
Standards	FFP2 NR EN 149:2001 + A1:2009 SABS Homologation Approval No.: AZ2003/43
Uses	For use against low to average toxic dust, fumes and aqueous mist. For use up to 12 X OEL or 10 X APF.
Precautions	Do not use in spray-paint operations. Do not use when concentrations of contaminant are unknown or immediately dangerous to life or health. Not to be worn with facial hair, i.e. no beards or moustaches.

**Precautions** 

Pack Size

Physical Properties  A foldable low profile mask offers a better fit with glasses and goggle. Ease of storage increases life of mask and offers increased savings in usage. The exhalation valve offers lower breathing resistance for easier breathing which increases worker's acceptance. A soft inner lining offers more comfort and less irritation. Smooth, pre-stretched head straps offer a good fit and comfort over the head and neck. Contoured adjustable nosepiece offers maximum performance.  Standards  FFP3 NR EN 149:2001 + A1:2009 SABS Homologation Approval No.: AZ2003/38  Precautions  Do not use in spray painting operations. Do not use when concentrations of contaminant are unknown or immediately dangerous to life or health. Not to be worn with facial hair, i.e. no beards or moustaches.  Pack Size  Box of 20	Product	RPD1 SH2930V
and goggle. Ease of storage increases life of mask and offers increased savings in usage. The exhalation valve offers lower breathing resistance for easier breathing which increases worker's acceptance. A soft inner lining offers more comfort and less irritation. Smooth, pre-stretched head straps offer a good fit and comfort over the head and neck. Contoured adjustable nosepiece offers maximum performance.  Standards  FFP3 NR EN 149:2001 + A1:2009 SABS Homologation Approval No.: AZ2003/38  Precautions  Do not use in spray painting operations. Do not use when concentrations of contaminant are unknown or immediately dangerous to life or health. Not to be worn with facial hair, i.e. no beards or moustaches.	Description	FFP3 NR Foldable Premium Respirator with Valve
SABS Homologation Approval No.: AZ2003/38  Precautions  Do not use in spray painting operations. Do not use when concentrations of contaminant are unknown or immediately dangerous to life or health. Not to be worn with facial hair, i.e. no beards or moustaches.		and goggle. Ease of storage increases life of mask and offers increased savings in usage. The exhalation valve offers lower breathing resistance for easier breathing which increases worker's acceptance. A soft inner lining offers more comfort and less irritation. Smooth, pre-stretched head straps offer a good fit and comfort over the head and neck. Contoured
concentrations of contaminant are unknown or immediately dangerous to life or health. Not to be worn with facial hair, i.e. no beards or moustaches.	Standards	
	Precautions	concentrations of contaminant are unknown or immediately
Pack Size Box of 20		i.e. no beards or moustaches.
	Pack Size	Box of 20



For use against low to average toxic dust, fumes and aqueous mist. For use up to 50 X OEL. or 20 X APF. For use against organic gases at nuisance levels.



	Product	RPD2 87322
	Description	uvex Silv-Air c FFP2 Respirator
	Physical Properties	Innovative design with an optimised shape. Soft material edges for greater comfort and wearer acceptance. Seamless headband for a comfortable, secure fit. Adjustable nose clip ensure an excellent individual fit. Mask fulfills the requirements of the dolomite dust test. Compatible with uvex safety eyewear Upper face seal offers both secure positioning and comfort. Exhalation valve for easy airflow exchange and reduces the build-up of heat and moisture inside the mask (applicable to valve option only).
	Standards	CE EN 149, EU guideline 89/686/EEC
	Uses	For use against fine respirable non-toxic dust and fibres. Protection from fibre glass insulating materials, Quartz dust. Protection during sanding, cutting, milling, drilling, angle grinding, sawing, power station retrofitting & filter cleaning,
		sewage treatment, mining, resin & adhesive processing.

Product	RPD2 8732310 <b>UVEX</b>
Description	uvex Silv-Air c FFP3 Respirator
Physical Properties	Innovative design with an optimised shape. Soft material edges for greater comfort and wearer acceptance. Seamless headband for a comfortable, secure fit. Exhalation valve for easy airflow exchange and reduces the build-up of heat and moisture inside the mask. Adjustable nose clip ensure an excellent individual fit. Mask fulfills the requirements of the dolomite dust test. Compatible with uvex safety eyewear. Upper face seal offers both secure positioning and comfort
Standards	CE EN 149, EU guideline 89/686/EEC
Uses	For use against fine respirable non-toxic dust and fibres. Protection from fibre glass insulating materials, Quartz dust. Protection during sanding, cutting, milling, drilling, angle grinding, sawing, power station retrofitting & filter cleaning, sewage treatment, mining, resin & adhesive processing.



**Precautions** 

This product does not protect from paint spray operations or Uses atmospheres containing less than 19.5% oxygen. Use in adequately ventilated areas. Do not use when concentrations of contaminants are dangerous to health. Leave area if breathing becomes difficult or distress occurs. Replace respirator if damaged, breathing resistance becomes excessive, or at the end of one shift.

3M FFP2 NR D Respirator
The 3M 8810 and 8822 respirator provides lightweight, effective, comfortable and hygienic respiratory protection against dusts and mists. The convex shape, twin strap design, foam nose seal and aluminium nose clip ensure a good face seal over a wide range of face sizes. These respirators are exempt from costly time consuming maintenance requirements. The 8822 model has a unique valve and collapse resistant shell offering durable, comfortable protection particularly in hot and humid conditions.
SANS 50149:2001
8810-base metal manufacture, laboratories, powdered additives, pharmaceuticals, foodstuffs e.g. bagging, powdered chemicals, sawmills. 8822 in addition to above uses may be used for iron and steel foundries, shipbuilding/ship repairing,

potteries, brick fire clay and refractory materials, construction.

Maximum usage level up to 12xTLV.

**RPD2 3M88** 

Description

3M FFP2 NR D VFlex Flat Fold 9100 Respirator

#### Physical **Properties**

V-shaped pleats which flex with mouth movement for easier talking and expand to help ease of breathing. Adjustable noseclip which helps provide a custom fit and secure seal. Noseclip is imbedded and are metal detectable. Elastic headbands contain no natural rubber latex components. Flat-fold ensures convenient storage prior to use. Spacious inside with minimal impact on field of vision. Compatible with a variety of eyewear and hearing protection. This product is available in two sizes to fit a broad range of faces.



EN 149:2001 + A1:2009

#### Uses

Sweeping, sanding, grinding, sawing, bagging, dry chemical handling, emergency preparedness, pharmaceutical/ laboratory, food preparation, mineral processing, Agriculture, general maintenance, fibreglass manufacturing. Maximum usage level up to 12xTLV.



This product does not protect from paint spray operations or atmospheres containing less than 19.5% oxygen. Use in adequately ventilated areas. Do not use when concentrations of contaminants are dangerous to health. Leave area if breathing becomes difficult or distress occurs. Replace respirator if damaged, breathing resistance becomes excessive, or at the end of one shift.





**Product** 

RPC2 RP369	A1 Organic Filter
2 RPC2 RP357	B1 Inorganic Filter
3 RPC2 RP386	A1P2 Filter
4 RPC2 RP395	B1P2 Filter
5 RPC2 RP374	P2 Filter

**BOX & LID CARTRIDGES** 

120 121

Product	RPH1 RP191
Description	Single Half Mask (Box and Lid)
Physical Properties	PVC rubber half mask with single cartridge holders. Comfortable low breathing resistance and easy fit headgear. Wide assortment of cartridges for various applications. Non-allergenic moulded soft rubber. Elastic type head harness. Quick release buckle on the elastic neck strap.
Standards	SANS 50140:1998
Uses	Half mask Respirator approved for use against organic, inorganic, acid gases and particulates
Precautions	Not to be used in areas that are oxygen deficient i.e. where oxygen is below 19%. Not to be used where the contaminant is IDLH. Only to be used with North Safety Products approved cartridges. Only to be used with the applicable cartridges to protect from the particular hazard. Not to be worn with facial hair, i.e. no beards or moustaches.





Product	RPH1 RP192
Description	Twin Half Mask (Box and Lid)
Physical Properties	PVC rubber half mask with double cartridge holders. Comfortable low breathing resistance and easy fit headgear. Wide assortment of cartridges for various applications. Non-allergenic moulded soft rubber. Elastic type head harness. Quick release buckle on the elastic neck strap.
Standards	SANS 50140:1998
Uses	Half mask respirator approved for use against organic, inorganic, acid gases and particulates
Precautions	Not to be used in areas that are oxygen deficient i.e. where oxygen is below 19%. Not to be used where the contaminant is IDLH. Only to be used with North Safety Products approved cartridges. Only to be used with the applicable cartridges to protect from the particular hazard. Not to be worn with facial hair, i.e. no beards or moustaches.

Product	CLASS 1 FILTERS	Direct Thre	Direct Thread Respirators	
	DUST FILTERS		GAS FILTERS continued	
RPC1 RN75008	P3 high efficiency filter	RPC1 RN75004	K1 Ammonia/Methylamine/Ethylamine	
	PRE-FILTERS	RPC1 RN75009	A1B1E1K1 Organic/Inorganic/Acid/Ammonia	
RPC1 RN750010	P2 Pre-filter paint spray/mists		COMBINATION FILTERS	
RPC1 RN750027	Pre-filter holder	RPC1 RN750081	A1P3 Organic/P3	
RPC1 RN750015	GAS FILTERS Filter holder	RPC1 RN750083 RPC1 RN75003P2	A1B1E1P2 Organic/Inorganic/Acid/P2	
RPC1 RN75001	A1 Organic vapours	RPC1 RN750084SG	K1P3 Ammonia/Methylamine/Ethylamine/P3	
RPC1 RN75003	A1B1E1 Organic/Inorganic/Acid	RPC1 RN750089	A1B1E1K1P3 Organic/Inorganic/Acid/Ammonia/P3	



Protection against	
(see cartridges & index filter type)	
index filter type)	

Protection against: (see cartridges &

Precautions

continued











**Product** 

Description Single Half Mask **Physical** PVC rubber half mask with single direct thread cartridge **Properties** holders. Comfortable low breathing resistance and easy fit headgear. Wide assortment of cartridges for various applications. Non-allergenic moulded soft rubber. Elastic type head harness. Quick release buckle on the elastic neck strap. **Standards** SANS 50140:1998 Uses Can be used with the Class 1 series filters, or as a face piece with compressed airline apparatus CF2007 Plus. **Precautions** Not to be used in areas that are oxygen deficient i.e. where oxygen is below 19%. Not to be used where the contaminant is IDLH. Only to be used with North Safety Products approved class 1 series screw in cartridges. Only to be used with the applicable cartridges to protect from the particular hazard. Not to be used with combination cartridges. Not to be worn

with facial hair, i.e. no beards or moustaches.

**RPH1 RP193** 

Product	RPH1 RP194
Description	Twin Half Mask
Physical Properties	PVC rubber half mask with 2 direct thread cartridge holders. Comfortable low breathing resistance and easy fit headgear. Wide assortment of cartridges for various applications. Non allergenic moulded soft rubber. Elastic type head harness. Quick release buckle on the elastic neck strap.
Standards	SANS 50140:1998
Uses	Can be used with the Class 1 series filters, or as a face piece with compressed airline apparatus CF2007 Plus.
Precautions	Not to be used in areas that are oxygen deficient i.e. where oxygen is below 19%. Not to be used where the contaminant is IDLH. Only to be used with North Safety Products approved Class 1 series screw in cartridges. Only to be used with the applicable cartridges to protect from the particular hazard. Not to be worn with facial hair, i.e. no beards or moustaches.





**Product** 

Description

**Physical** 







RPH1 RN550030













В

applicable cartridges to protect from the particular hazard.

Not to be worn with facial hair, i.e. no beards or moustaches.

AX

Sizes Medium or Large

Uses

**Precautions** 

Face piece made from soft, hypoallergenic elastomer. **Properties** Contoured sealing flange, cradle suspension system and headband yoke. Exceptionally low breathing resistance. Positive pressure fit check without removing cover, eliminates the risk of improper seal and reduced protection due to lost or worn sealing gaskets. Minimises replacement parts, ease of maintenance and no cartridge receptacles to clean. **Standards** SANS 50140:1998 Can be used with the Class 1 series filters, or as a face piece with compressed airline apparatus CF2007 Plus. Not to be used in areas that are oxygen deficient i.e. where

oxygen is below 19%. Not to be used where the contaminant

is IDLH. Only to be used with North Safety Products approved

Class 1 series screw in cartridges. Only to be used with the

Twin Cartridge Neoprene Rubber Half Mask

122 123

Size Small

(Light Grey/Grey)

RPD2 3M6100

Size Medium

RPD2 3M6200

(Grey)











Can be used with the Class 1 series filters, or as a face piece with compressed airline apparatus CF2007 Plus.

#### **Product** RPH2 3M6000 **Description** 6000 Series Half Mask (Small, Medium and Large) **Physical** Lightwieght. Flexible system (gas/vapour and/or particulate **Properties** filters plus supplied-air option). Hypo-allergenic facepiece material. Easy to use. Well balanced. Low maintenance. Economical. **Standards** SANS 50140:1998

Uses

The 6000 Series Respirators are used with twin lightweight filters which are fitted by a simple bayonet attachment system, providing an economical and flexible choice. Respirators can also be used with the 3M S-200 Supplied air System for increased convinience and flexibility.

**Precautions** 

Not to be used in areas that are oxygen deficient i.e. where oxygen is below 19.5%. Not to be used where the contaminant is IDLH. Only to be used with 3M filters/product options. Only to be used with the applicable cartridges to protect from the particular hazard. Not to be used with combination cartridges. Not to be worn with facial hair, i.e. no beards or moustaches

Protection against (see cartridges & index filter type)

















Uses continued

with 6000 series gas/vapour filters using retainer 501. Note: The 6098/6099 filters should not be used with the 6000 series half masks. Supplied-Air mode using 3M S-200 Respirator System (for information on the Supplied-Air System and application please see the 3M S-200 Data Sheet)

Product	RPC2 3M6000/ RPC2 3M2000	
Description	Gas/Vapour & Particulate Filters	
Physical Properties	Lightweight. Flexible system (gas / vapour and / or particulate filters plus Supplied-Air option). Hypo-allergenic facepiece material. Easy to use. Well balanced. Low maintenance. Economical	
Standards	EN 141 / EN 143	
Uses	The 6000 Series half masks can be used in a variety of different filter applications. Gas and vapour filters - The 6000 series filters fit directly onto the 6000 series half masks. Particulate Filters - The 2000 series particulate filters fit directly onto the 6000 series half masks. The 5911/5925/5935 particulate filters may be used on their own with platform 603 & retainer 501. A combination of gas/vapour and particulate filters - The 2000 series filters can be used with the 6000	

**Description** 

6500 Series Half Mask (Small, Medium and Large)

#### **Physical Properties**

Adjustable Head Harness Assembly, including 3M Quick Latch drop down mechanism on QL models. Silicone Faceseal, providing comfort and stability with a soft but firm faceseal. Flexible System (gas/vapour and/or particulate filters. Overmolded/ Low-Profile Design Simplified cleaning and maintenance with fewer parts and crevices. Valve Cover Design that directs exhaled breath and moisture downward and allows for an easy positive pressure seal check. Twin filter design provides lower breathing resistance, a more balanced fit, and improves field of vision. Available with 2 head cradle suspensions, a standard version, and the Quick latch version, designed so that the half mask can easily be "dropped down" when not in a contaminated area, without having to remove the head cradle from your head.

#### **Standards**

SANS 50140:1998

#### **Uses**

The 6500 Series Respirators can be used with a variety of different filter options. Gas and Vapour Filters only: The filters generally protect against either single or multiple contaminant type(s). Particulate filters only: These filters provide protection against solid and non-volatile liquid particles. Combination of Gas & Vapour and Particulate filters.

#### **Precautions**

These respirators do not supply oxygen. Do not use in oxygen deficient areas i.e. where oxygen is below 19.5%. Do not use for respiratory protection against atmospheric contaminants which have poor warning properties, are unknown or immediately dangerous to life and health, or against chemicals, which generate high heats of reaction with chemical filters. Do not modify or alter this device. The assembled respirator may not provide a satisfactory face seal with certain physical characteristics (such as beards or large side burns) resulting in leakage between the respirator and the face. The user assumes all risks of bodily injury, which may possibly result. Do not use with unknown concentrations of contaminants. Do not use for escape purposes. Leave the work area immediately and check the integrity of the respirator and replace respirator and/or filters if: Damage has occurred or is apparent. Breathing becomes difficult or increased breathing resistance occurs. Dizziness or other distress occurs. You taste or smell the contaminant or an irritation occurs. Store this device in a sealed container away from contaminated areas when not in use. Use strictly in accordance with respirator and filter user instruction leaflet.



RPH2 3M6501 RPH2 3M6501QL (Quick-Latch)

series gas/vapour filters (not 6098 and 6099) using the 502

adapter. The 5911/5925/5935 particulate filters can be used

Size Medium

RPH2 3M6502 RPH2 3M6502QL (Quick-Latch)











# Not to be used in areas that are oxygen deficient i.e. where index filter type) Can be used with EN40 mm thread connection, powered filter device in combination with Airbelt or Compact Air. Also available as continues flow compressed airline apparatus, using North airbelt and regualtor RPP1 MC91A.

Cleanspace2™ Respirator is a Compact, Light Weight Powered

Low profile silicone mask fitted with exhalation valve and

adjusted with ratchet adjustment for comfortable fit. Sensor adjusts positive pressure air-flow inside mask. Ergonomic, padded, neck mounted design with robust, patented Microturbine motor which generates airflow. Quick charge Lithium ion battery provides between 6 and 11 hours of operation. High efficiency pleated, easy to fit, particulate filter will remove solid and liquid particles. Nylon and polyester harness.

Welding, woodworking, manufacturing, smelting, construction, recycling plants, emergency services, mining, agriculture,

processing plants, grinding, DIY. Options: Full Face or Half Mask.

PAPR-P

TM3: ISO9001

SANS 12942:1998

**RPP1 PAF** 

NRCS/8072/0090

AS/NZS1716:2012

EN 12942:1998+A2:2008

Air Unit

RPC1 HFPC3007

Lightweight double coated aluminium catridges. Wide range

of filters against almost al substances. No damage by sparks

or heat. No air-cracks possible, no chemical penetration.

The North filter canisters are approved to be used on

North 7700/15 half mask, the N5400 Class 2 and all other

manufacturers approved masks with DIN 148 standard

thread connection. The same filters can be used for the North

Powered Air system, Compact Air.

Compact Air Filters

Reduce inventory.

EN 148-1

**Product** 

Description

**Physical** 

**Properties** 

**Standards** 

**Product** 

**Description** 

**Physical** 

Uses

**Properties** 

Uses

### **Full Face Mask Respirators**



(see cartridges & index filter type) Not to be used in areas that are oxygen deficient i.e. where

**Product** 

Description

**Physical** 



**RPF1 RN76008AW** 

Full Face Welder's Mask









Class 2 Filters

Description

**Physical** 

**Properties** 

**Standards** 

**Precautions** 

**Precautions** 

**EPDM Direct Thread Full Face Mask** 

thread). Visor: EN 166B

**Powered Air-Purifying Respirators** 

Face piece made from soft, hypoallergenic elastomer.

Contoured sealing flange, cradle suspension system and

headband yoke. Exceptionally low breathing resistance. Positive pressure fit check without removing cover, eliminates

the risk of improper seal and reduced protection due to lost or worn sealing gaskets. Minimises replacement parts, ease of

maintenance and no cartridge receptacles to clean.

EN 136 (Class 2). Filter connector to EN 148-1 (40mm DIN

oxygen is below 19%. Not to be used where the contaminant

class 2 series screw in cartridges. Only to be used with the

applicable cartridges to protect from the particular hazard.

Not to be worn with facial hair, i.e. no beards or moustaches.

Do not use in IDLH, or in oxygen enriched or deficient atmospheres, to protect against gases/vapours that cannot be

filtered. Can operate between temperatures 0°C to 45°C.

is IDLH. Only to be used with North Safety Products approved Uses







Can be used with the class 1 series filters, or as a face piece with compressed airline apparatus, using North CF2007 Plus.

Allows use of full face piece respirators in welding

is not welding it can be lifted upward on a locking hinge for a wide angle view of the work area. Easily attaches to North

RN76008A full face piece respirators. The lightweight lift

allowing work to be performed in tight spaces.

front low profile conforms to the shape of the respirator lens

environments. This attachement constructed of fire resistant thermoplastic material, is designed so that when the worker

NIOSH/MSHA Certified - ANSI Z87.1-1989.



**RPF1 RN76008A** 

Silicone Rubber Direct Thread Full Face Mask

Designed to provide eye, face and respiratory protection while

providing optimum comfort. Provides a 200 degree field of

vision. Polycarbonate lens features optimal optical properties

to minimise distortion and astigmatism. Dual flange, silicone

full face piece. Chin cup designed to cover worker's entire

face. Cartridges have an inside thread connection. 5 strap head harness. Oral/nasal cup reduces fogging. Speaking diaphragm

for easy communication. Hard coated polycarbonate lens which

is scratch and impact resistant. Meets impact & penetration

oxygen is below 19%. Not to be used where the contaminant is IDLH. Only to be used with North Safety Products approved

class 1 series screw in cartridges. Only to be used with the applicable cartridges to protect from the particular hazard.

Not to be worn with facial hair, i.e. no beards or moustaches.

requirements of ANSI Z87.1-1989.

**Standards** 

**Product** 

**Description** 

**Physical** 

**Properties** 

**Precautions** 





NIOSH/MSHA Certified - ANSI Z87.1-1989.



Can be used with the class 1 series filters, or as a face piece

with compressed airline apparatus, using North CF2007 Plus











**Precautions** 

Not to be used in areas that are oxygen deficient i.e. where oxygen is below 19%. Not to be used where the contaminant is IDLH. Only to be used with North Safety Products approved class 1 series screw in cartridges. Only to be used with the applicable cartridges to protect from the particular hazard. Not to be used with combination cartridges. Not to be worn with facial hair, i.e. no beards or moustaches.

Troduct	KITT NOSTSTIVI
Description	Neoprene Rubber Direct Thread Full Face Mask
Physical Properties	Face piece made from soft, hypoallergenic elastomer. Contoured sealing flange, cradle suspension system and headband yoke. Exceptionally low breathing resistance. Positive pressure fit check without removing cover, eliminates the risk of improper seal and reduced protection due to lost or worn sealing gaskets. Minimises replacement parts, ease of maintenance and no cartridge receptacles to clean.
Standards	SANS 50136:1998 EN 136:1998 CL1 SABS Homologation Approval No.: AZ2009/01
Precautions	Not to be used in areas that are oxygen deficient i.e. where oxygen is below 19%. Not to be used where the contaminant is IDLH. Only to be used with North Safety Products approved class 1 series screw in cartridges. Only to be used with the applicable cartridges to protect from the particular hazard.
	Not to be used with combination cartridges. Not to be worn with facial hair, i.e. no beards or moustaches.

RPF1 N65754101



Int Protection against ed (see cartridges & index filter type)











Can be used with the Class 1 series filters, or as a face piece with compressed airline apparatus CF2007 Plus.

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Product	RPP1 PA121EU
Description	Premier Plus Hood with Bib and Harness Coated
Physical Properties	A full coated hood available for occasional splash, part of the light duty airhoods range designed for use with powered air respiratory protection. This model is semi reusable. It is recommended in working area where protection is required for respiratory organs, face and head against harmful particles, mists, gasses and vapours. This system procures air to the user via the supply hose connected between PAPR (equipped with filters) and the hood. The filtered airflow enters at the rear or the hood flows through the air duct and leaves the hood via the neck bib.
Standards	EN 12941:1998
Uses	Whenever full head and shoulder should be protected. Light chemical handling. Handling powder and liquids in the pharmaceutical industry. Agriculture use. Paint spraying.





**RPP1 CF2007** 

Waist Belt. Series CF-SAR.

Product	RPP2 AFS104
Description	4 Port In-line Filter Unit (Compressed Air)
Physical Properties	The AFS104 contains the following filter: filter/regulator. Regulates airflow. Micro mist separator. Removes mists and moisture from compressed air. Odour removal filter. Removes oil mists and odours.
Standards	None
Uses	To be used in confined spaces when attached to an external air supply. To be used in IDLH (Less than 19% oxygen) situations when attached to an external air supply. To be used in conjunction with a North Safety Full Face or Twin Half Mask and the CF2007 Plus connector hose.
Precautions	Only to be used with North Safety Products approved Respirators. Only use when the airline hose is below a length of 80 meters.



Easily converts air-purifying respirator into a continuous flow respirator. Easily adaptable to the North 5500, 7700, 5400 or 7600 series air purifying face pieces, simply by removing cartridges and attaching interchangeable breathing tube to the face piece cartridge connectors. No modifications, tools or extra components needed. Using common face pieces for air-purifying and supplied air applications reduce inventory and maintenance costs, simplifying respiratory training and compliance with OSHA requirements for annual fit testing. Uses Designed to rest on the back not to restrict the worker. Allows workers to function for long periods of time in toxic

Interchangeable Breathing Tube, Adjustable Airflow Valve and

Utilises North halfmask and full-face pieces, giving advantages of industry leading products. 2-piece hose engineered to be soft and flexible where it attaches to the face piece, reducing strain on face seal while providing protection against kinking and shutoff when exposed to work area. Durable, ergonomically designed control valve monitors airflow. Wide, adjustable belt will not "cut" into worker's side.



Broduct	DDD4_444440C
Description	Light Duty Full Transparent Airhood with Plastic Clamps for Disposable Visors against Damage and/or Splashes.
Physical Prop.	PU/Ferranyl/Neoprene. Airflow of 160 litres per minute.
Standards	EN 12941 class TH2P NPF=50
Uses	Spray painting. Grinding. Light chemical handling.
Precautions	Not to be used where the contaminant is IDLH, unless in conjunction with a compressed airline. Only to be used with North Safety Products approved Compact Air & Airbelt. Not to be worn in areas that are oxygen deficient i.e. where oxygen is below 19%.

Product	RPP1 A114400
Description	Heavy Duty Airhood with PU hood and visor clamps for disposable visors. The Combi version includes a safety helmet.
Physical Prop.	PU/Ferranyl/Neoprene. Airflow of 160 litres per minute
Standards	EN 12941 class TH2P NPF=50
Uses	Spray painting. Grinding. Light chemical handling.
Precautions	Not to be used where the contaminant is IDLH, unless in conjunction with a compressed airline. Only to be used with North Safety Products approved Compact Air & Airbelt. Not to be worn in areas that are oxygen deficient i.e. where oxygen is below 19%.



RPP1 A150102

Compact Air Powered Respirator

Used in combination with particle or gas filters. The



	The state of the s	Properties	contaminated air is drawn through 3 filters and supplies continunous flow of clean air to the wearer's headpiece (hood or mask). The unit is supplied as standard with a support belt to distribute the weight evenly over the back. Both battery and blower are separate which makes it easy to change the battery.
		Uses	Welding, grinding, chemical handling, cleaning, spray painting
		Airflow	150 to 200 L/min (dependant on filter type)
Precautions	Not to be used where the contaminant is IDLH. Not to be worn in areas that are oxygen deficient i.e. where oxygen is below 19%.	Hose	800mm long with 22mm diameter HDPE
Packaging	Supplied complete with hose, battery, charger, & fuse in plastic case	Operating Time	10 hours (Battery supplied in uncharged state)
<b>Charging Time</b>	8 hours (battery supplied in uncharged state)	Standards	EN 12941 for Airhoods EN 12942 for Masks

**Product** 

Description

**Physical** 

Product

**Product** 

**Description** 

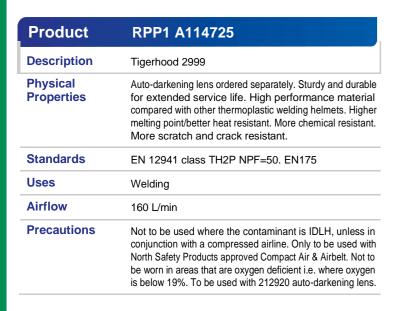
**Physical** 

**Properties** 





Product	RPP1 A114110
Description	Primair Airhood
Physical Properties	Externely light and comfortable. Easy to change the top. Headband and airduct reusable, reduces costs. Airduct takes air to the visor, no misting up, no cold air on wearers head.
Standards	EN 12941 class TH1P & EN 14594 class 2A
Uses	Spray painting. Agriculture. Light chemical handling.
Airflow	160 L/min
Precautions	Not to be used where the contaminant is IDLH, unless in conjunction with a compressed airline. Only to be used with North Safety Products approved Compact Air & Airbelt. Not to be worn in areas that are oxygen deficient i.e. where oxygen is below 19%.





# **Gas Detection**



Product	GAA1 EZ GUIDE
Description	EZ Guide for Respiratory Protection - an interactive respiratory guide used to assist users in making the correct choice of respirator, cartridge or canister.
Physical Prop.	Comes with Compact Multimedia Disk and Manual book
Uses	The user specifies the contaminant that is being protected against     A list of concentration levels is presented     The appropriate respirator type(s) are displayed, along with a description and comments about the specified contaminant

Product	GAT1 TB
Description	Gas Detection Tubes
Physical Properties	Gastec standard tubes are thin glass tubes with calibration scales printed by which you can directly read concentrations of the substances (gases and vapours) to be measured. Each tube contains detecting reagent(s) that are especially sensitive to the target substance and quickly produce a distinct layer of colour change.
Manufacturer's Quality	To assure a high precision indication, Gastec detector tubes' inner diameters are tightly controlled and detecting reagents with long term stability are strictly selected. All detector tubes undergo stringent quality control. Individual production lots are tested and calibrated independently of each other to ensure the highest calibration accuracy for each lot. Each detector tube has its quality control number printed on it.
Standards	ANSI/ ISEA 102/ BS5343/ DIN33882/ JIS K 0804









Product	GAP1 TA800
Description	Gas Sampling Pump - Model GV-100S
Physical Properties	The full-stroke (100ml) and the half stroke (50ml) positions are marked exactly by the red line on the pump shaft, and the handle is precisely locked at those positions. If you pump fully n times by allowing for sampling time intervals, a volume of 100ml x n can be sampled. Each detector tube is calibrated based upon a prescribed (standard) volume of sample. Also the pump piston has been designated with a smaller diameter so that the handle can be pulled out with even less effort. Gastec piston sampling pump design provides you with advanced non-sparking design and superior features.
Uses	The Model GV-100S Gas Sampling Pump can precisely collect a sample volume for a detector tube
Standards	ANSI/ ISEA 102/ NIOSH/JIS K 0804

Product	GAP1 TA810
Description	Gas Sampling Pump - Model GV-110S
Physical Properties	The full-stroke (100ml) and the half stroke (50ml) positions are marked exactly by the red line on the pump shaft, and the handle is precisely locked at those positions. If you pump fully n times by allowing for sampling time intervals, a volume of 100ml x n can be sampled. Each detector tube is calibrated based upon a prescribed (standard) volume of sample. Also the pump piston has been designated with a smaller diameter so that the handle can be pulled out with even less effort. Gastec piston sampling pump design provides you with advanced non-sparking design and superior features.
Uses	The Model GV-110S Gas Sampling Pump can precisely collect a sample volume for a detector tube. The model GV-110S has an automatic sample counter which indicates how many pump strokes you have already completed.
Standards	ANSI/ ISEA 102/ NIOSH/JIS K 0804





