

Respiratory Protection

Important Safety Information



...Employee participation is the key piece missing in most respirator programs...

Respirators are designed to protect the wearer against one or more of the following hazards:

- Deficiency of oxygen
- Contaminants in particulate form
- Contaminants in gaseous form

Why is employee participation necessary?

- Fitting the respirator to the face of the worker. Respirators must be comfortable or they won't be used, and they must fit well or they won't be effective.
- Understanding the hazards and proper training in respirator use will increase chances that employees use, store and maintain the devices properly.
- When management and employees are actively trying to find the best fit, workers are more likely to wear the devices, reducing the risk of illness and lost workdays.

OEL: OCCUPATIONAL EXPOSURE LEVEL

Note: If you are unsure of the extent of the atmospheric hazard then respirators should be worn



Choosing the right respirator



- Always ensure that the respirator completely covers your nose and mouth
- Ensure that supplied air respirators are airtight
- Ensure you can breath properly
- Do not use damaged, clogged, or dirty respirators
- Always check regularly and replace if required



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WILLSON®

Filter Selection Guide

This guide only serves as an indication of which filters could be used for protection against commonly encountered contaminants. Filters should only be selected based on an assessment, by an approved body, of the contaminant and concentration levels to which the worker is exposed.

Contaminant	A	B	E	K	P3	Contaminant	A	B	E	K	P3	Contaminant	A	B	E	K	P3
Acetic acid	●					Cyclohexanol	●					Nitric acid			●		○
Acetic anhydride	●					Cyclohexanone	●					Nitrobenzene	●				
Acetamide					○	Diacetone alcohol	●					Nitro-glycerine	●				
Acetylene		●				1,2-Dichloroethane	●					2-Nitropropane	●				
Acetyl chloride		●				Diglycidyl ether (DGE)	●				○	Octane	●				
Acrylamide	●				○	Dimethylamine				●		Organic peroxides	●				○
Acrylic acid	●					Dimethylformamide	●					Oxalic acid					○
Acrylonitrile	●					Dimethyl sulphate	●				○	PCB	●				○
Adipic acid					○	Dioxane	●					Pentachlorophenol	●				○
Aliphatic naphta	●					Diphenyl	●				○	Perchloric acid		●			○
Allyl alcohol	●					Epichlorohydrin	●					Perchloroethylene	●				
Allyl amine				●		Ethanol (Ethyl alcohol)	●					Phenol	●				
Allyl chloride	●					Ethanolamine				●	○	p-Phenylene diamine					○
Aluminium chloride		●			○	Ethyl acetate	●					Phosgene (carbonyl chloride)		●			
Aluminium metal and oxide					○	Ethyl acrylate	●				○	Phosphine		●			
Ammonia				●		Ethyl diamine				●		Phosphoric acid					○
Amyl acetate	●					Ethylene glycol	●					Phosphorous trichloride		●			○
Aniline & homologues	●					Ethyl ether	●					Phthalic anhydride					○
Antimony & compounds					○	Ferrous chloride		●			○	Potassium hydroxide					○
Antimony hydride		●				Fluoric silicate		●				Potassium permanganate					○
Aromatic naphtha		●				Formaldehyde		●				Propanic acid	●				
Arsenic & soluble compounds					○	Formamide	●					2-propanole	●				
Asbestos					○	Formic acid				●		Pyridine	●				
Barium					○	Furfural	●					Quartz (silica)					○
Benzaldehyde	●					Furfuryl alcohol	●					Selenium compounds (as Se)		●			○
Benzene	●					Gluturaldehyde	●				○	Selenium sulphide		●			○
Benzoyl chloride		●				Glycol monobutyl ether	●					Silver nitrate					○
Benzyl alcohol	●				○	Glycol monoethyl ether	●					Sodium carbonate					○
Benzyl chloride	●					Glycol monomethyl ether	●					Sodium fluoride		●			○
Biphenyl	●				○	Hydrazine				●		Sodium hypochlorite		●			○
Bromine		●				Hydrochloric acid gas		●			○	Sodium perborate					○
Butyl acetate	●					Hydrogen cyanide		●				Sodium silicate					○
Butyl alcohol	●					Hydrogen fluoride (as F)		●				Styrene monomer	●				
Butylamine				●		Hydrogen selenide		●			○	Sulphamic acid					○
Butyl phenol					○	Hydrogen sulphide		●				Sulphur dioxide			●		
Butyraldehyde	●					Hydroquinone					○	Sulphuric acid			●		○
Cadmium					○	Iodine		●				Tetrachloroethylene	●				
Calcium oxide					○	Iron oxide, fume					○	Tetrahydrofuran	●				
Carbon tetrachloride	●					Isophorone	●					Toluene	●				
Chlorates					○	Lead, inorganic fumes & dust					○	Toluene diisocyanate (TDI)	●				○
Chlorine		●				Maleic acid anhydride	●				○	Tributyl phosphate	●				○
Chlorine dioxide		●				Manganese & compounds					○	Trichloroethane	●				
Chlorine paraffin	●				○	Methyl acrylate	●					Trichloroethylene	●				
Christobalite					○	Methylamine				●		Trimethyl benzene	●				
Chromic acid & chromates					○	Methyl chloroform	●					Trisodium					○
Cobalt metal, dust and fume					○	Methylene bisphenyl diisocyanate	●				○	Turpentine	●				
Copper					○	Methyl ethyl ketone (MEK)	●					Vanadium (as V)					○
Cresol, all isomers	●				○	Methyl isobutyl ketone (MIBK)	●					Vinyl acetate	●				
Cumene	●					Methyl methacrylate	●					Vinyl toluene	●				
Cyanides		●			○	Monomethyl amine				●		White spirit	●				
Cyanogen chloride		●				Morpholine	●					Xylene	●				
Cyclohexane	●					Nickel metal					○	Zinc chloride, fume		●			○

Respiratory Protection

Disposable Masks



WILLSON SUPERONE 3203 FFP1

Part no: 050-431

- Meets EN 149:2001
- Applications include textile, mining, construction, iron and steel industries, woodworking (except hard wood), etc.
- Provides protection against dust and mists containing: calcium carbonate, kaolin, cement, cellulose, sulphur, cotton, flour, glass-wool, coal, ferrous metals, vegetable and mineral oils (list is non-exhaustive)

WILLSON SUPERONE 3205 FFP2

Part no: 050-433

- Meets EN 149:2001
- Applications include textile, mining, construction, iron and steel industries, car body preparation industry, woodworking, agricultural and horticultural industries, welding operations, cutting and moulding of metals, etc.
- Provides protection against dust and mists containing: calcium carbonate, fibre and aluminium, barium, sodium silicate, graphite, gypsum, cellulose, sulphur, cotton, glass fibre, plastic, coal, vegetable and mineral oils, quartz, copper, titanium, vanadium, chrome, manganese, molybdenum (list is non-exhaustive).



WILLSON 5208 SINGLE USE RESPIRATOR P2

Part no: 050-432



- Economy-version P2 respirator for protection against low toxicity solid and liquid aerosols in low concentrations
- Meets EN 149:2001
- Applications include textile, mining, construction, iron and steel industries, car body preparation industry, woodworking, agricultural and horticultural industries, welding operations, cutting and moulding of metals, etc.
- Provides protection against dust and mists containing: calcium carbonate, sodium silicate, graphite, gypsum, cellulose, sulphur, cotton, glass fibre and plastic, coal, vegetable and mineral oils, quartz, copper, aluminium, barium, titanium, vanadium, chrome, manganese, molybdenum (list is non-exhaustive).

Respiratory Protection

Disposable Masks



WILLSON 5209 SINGLE USE RESPIRATOR P2 WITH VALVE

Part no: 050-434



- Featuring an exhalation valve, this value-for-money P2 respirator is comfortable enough to wear all day
- Basic boomerang seal
- Meets EN 149:2001
- Applications include textile, mining, construction, iron and steel industries, car body preparation industry, woodworking, agricultural and horticultural industries, welding operations, cutting and moulding of metals, etc.
- Provides protection against dust and mists containing: calcium carbonate, sodium silicate, graphite, gypsum, cellulose, sulphur, cotton, glass fibre and plastic, coal, vegetable and mineral oils, quartz, copper, aluminium, barium, titanium, vanadium, chrome, manganese, molybdenum (list is non-exhaustive).

WILLSON 5251 FFP2D-OV*

Part no: 050-435

- Exhalation valve, Polo seal and adjustable headbands
- Provides relief against low levels of organic vapours and ozone below OEL 12X
- Specifically for welders
- Meets EN 149:2001
- Applications include textile, mining, construction, iron and steel industries, car body preparation industry, woodworking, agricultural and horticultural industries, welding operations, cutting and moulding of metals, etc.
- Provides protection against dust and mists containing: calcium carbonate, sodium silicate, graphite, gypsum, cellulose, sulphur, cotton, glass fibre and plastic, coal, vegetable and mineral oils, quartz, copper, aluminium, barium, titanium, vanadium, chrome, manganese, molybdenum (list is non-exhaustive).



Respiratory Protection

Reusable Masks



WILLSON VALUAIR PLUS*

Medium Part no: 050-447

- Made from Kraton®, silicone free
- Better visibility as a result of the twin filter system
- Quick and easy filter adjustment thanks to the unique sliding suspension system
- Particularly suitable for use in spray paint operations
- Compatible with all Willson filters
- Weight: 109g (Size M) & 113g (Size L)

WILLSON PREMIER HALF FACEPIECE (6100)

Part no: 050-437

- Facepieces in soft silicone to ensure flexibility, comfort & resistance
- Built-in perspiration port to prevent skin irritation
- Quick and easy filter adjustment thanks to its sliding suspension system headband and four-point harness
- Compatible with all Willson filters
- Not for spray painting
- Weight: 140g (Size M) & 145g (Size L)



WILLSON MAX 8200 TWIN

Part no: 050-438

- Silicone full facepiece with built-in half-mask
- Speech diaphragm
- Panoramic field of vision without distortion thanks to a wide lens that features anti-scratch and anti-fog coatings
- Easy and safe filter installation due to the sliding suspension System
- Compatible with all Willson filters
- Weight: 659g

Respiratory Protection Cartridges & Filters



WILLSON CARTRIDGE FILTERS



2 Required per half - and full-face masks

A2	Part no: 050-439
K2	Part no: 050-440
ABEK I	Part no: 050-441
ABEK IP3	Part no: 050-443
P3	Part no: 050-442



WILLSON PRE-FILTERS

Two required per half - and full-face masks
P2 Part no: 050-444
Pre-filter retainer Part no: 050-445



Respiratory Protection

Disposable Masks



AFROX DUST RESPIRATOR FFI*

Part no: 053-714

- 20 Per box
- Afrox disposable respirators (maintenance free) provide lightweight, comfortable protection against a variety of hazards at an economic price.
- Twin elastic headband, adjustable nose bridge and a foam rubber nose seal
- Suggested applications: Protection against mechanically generated particulates from sawing, sanding, stripping, routing and power planing timber, as well as grinding, drilling and cutting masonry, concrete and bricks; also useful when handling cement and household dust
- Meets: CE EN149

AFROX DUST RESPIRATOR FF2*

Without valve: 053-715

Quantity per box: 20

With valve: 053-716

Quantity per box: 10

- Afrox disposable respirators (maintenance free) provide lightweight, comfortable protection against a variety of hazards at an economic price
- Twin elastic headband, adjustable nose bridge and foam rubber nose seal
- High level of protection to include mechanically and thermally generated particulates up to 10 times the standard.
- Ideal for use when exposed to dust, silica, coal and lead dust, glass fiber and zinc oxide
- Meets: CE EN149



AFROX KOYOTE RESPIRATOR

FFP2 Foldable without valve Part no: 050-222

FFP2 Foldable with valve Part no: 050-223

FFP3 Foldable with valve Part no: 050-224

- Lightweight
- Comfortable superior fit
- Foldable for easy storage in pocket
- Valved option to minimise breathing resistance

Respiratory Protection

Disposable Masks



3M 8710 FFPI DUST RESPIRATOR *

Part no: 053-713

- Serves as a dust / mist respirator, easy to use, one piece design, low profile for better visibility, nose clip contours to a variety of face shapes
- Maximum use level 5x OEL
- Suggested applications: Grinding, sanding, sweeping, bagging, woodworking and other dusty operations

3M FFP2 DUST RESPIRATOR

3M 8810 Part no: 053-711*

3M 8822 with valve Part no: 053-712

- Maximum use level 10x OEL
- Suggested applications: Grinding, sanding, bagging, woodworking, foundries, mining and other dusty operations



3M 9925 PARTICULATE RESPIRATOR*

Part no: 050-133

- Maximum use level 10x OEL where ozone is presented
- Suggested applications: Welding, brazing, soldering, torch cutting, metal pouring, grinding, bagging, sanding, sweeping, other dusty / hot, foundry / petrochemical operations

Respiratory Protection

Reusable Masks



3M 6000 SERIES RESPIRATOR FACE PIECE



Medium (6200) Part no: 053-739

*Large (6300) Part no: 053-738

- Replaceable filter gas and vapour combinations
- Protect against a wide range of contaminants
- Can be used with 2000, 5000 and 6000 series cartridges, filters, adapters and retainers
- Can also be used as a dual airline supplied air respirator system
- Suggested applications: Spray painting, welding, chemical handling, pharmaceuticals and maintenance

3M 6800 FULL FACE RESPIRATOR

Part no: 053-367

- Twin filter design provides lower breathing resistance, a more balanced fit, by avoiding heavy filter at the front and also improves field vision
- Soft hypo allergenic elastomeric face piece
- Wide field of vision
- Polycarbonate lens, scratch and impact resistant to EN 166:B
- Speech transmission zone for easier communication in the workplace



3M SPRAY PAINT STARTER PACK

Part no: 053-744

- 3M 6300 respirator face piece
- 2 x 3M 6051 organic vapour cartridges
- 2 x 3M 5925 P2 filters
- 2 x 3M 501 retainers

Respiratory Protection

Cartridges & Accessories



3M CARTRIDGES



3M 6055 Cartridge*

Part no: 050-194

Type: A2

Use for protection against organic vapours up to 10x OEL



3M 6054 Ammonia Cartridge

Part no: 053-742

Type: KI

Use for protection against ammonia and methylamine up to 10x OEL



3M 6057 Gas & Vapour Filter

Part no: 050-185

Type: ABE I

Use for protection against organic, inorganic vapours and acid gasses up to 10x OEL



3M 6059 Gases / Ammonia Cartridge KI

Part no: 053-743

Type: ABEK I

Use for protection against organic, inorganic vapours, acid gasses and ammonia up to 10x OEL

3M PARTICULATE FILTER

3M 2138 Part no: 053-741

- Type: P3
- Use for protection against particulates up to 20 x OEL and nuisance level organic vapour

3M 5935 Part no: 050-134

- Type: P5
- Use for sanding, grinding, asbestos, woodworking foundries, mining and as a pre-filter in gas and vapour combinations



3M 501 RETAINER



Part no: 050-061

- Retainer for combination of 3M 5000 series & 3M 6000 series cartridges