

# R1100

corpro  
a better fit

DESIGNED  
TO PROTECT **FORCE**  
360

## Filter Range

### Standard Filters

R11001  
P3 R

Particulate filter



R11004  
A1

Organic vapour filter  
(regular capacity)



R11008  
A2

Organic vapour filter  
(high capacity)



R11005  
ABE1

Organic and inorganic vapour  
and acid gas filter  
(regular capacity)



R11007  
ABEK1

Organic and inorganic vapour,  
acid gas and ammonia filter  
(regular capacity)



### Combination Filters

R11002  
A1P3 R D

Organic vapour and particulate  
combination filter  
(regular capacity)



R11009  
A2P3 R D

Organic vapour and particulate  
combination filter  
(high capacity)



R11006  
ABE1P3 R D

Organic and inorganic vapour, acid  
gas and particulate  
combination filter  
(regular capacity)



R11003  
ABEK1P3 R D

Organic and inorganic vapour,  
acid gas, ammonia and particulate  
combination filter  
(regular capacity)



### Features

- ▲ Patented 'Easy-On' filter connection helps users securely mount filters onto their mask from any orientation with ease
- ▲ Ultra low breathing resistance created using twin inhale valves and low pressure-drop filters
- ▲ Swept-back filter position offers an unobstruction field of view

### Standards & Certification

Force360 recognise that without product certification by a Notified Body all product performance testing, and adherence to standards claims cannot be independently verified. If they are not as claimed, serious safety implications for the wearer, and legal implications for the supplier and the employer may arise.

Force360 source their entire range of reusable respiratory protection from a single manufacturing partner to ensure consistency and reliability of product, but most importantly Force360 have taken the further step of engaging a globally recognised Notified Body to audit and certify both the manufacturing process and the products.

All of Force360's respiratory protection is certified to the latest AS/NZS respiratory protection standards.



Australian & NZ Standards  
AS/NZS 1716:2012  
Lic. BMP 710742

### Packaging

#### Standard Filters



#### Combination Filters



Designed and  
Assembled in the UK

## R1100 - Filter Range - Technical Specifications

Usage		P3 R	A1	A2	ABE1	ABEK1	A1P3 R D	A2P3 R D	ABE1P3 R D	ABEK1P3 R D
Filter Class		P3	Class 1	Class 2	Class 1	Class 1	Class 1 P3	Class 2 P3	Class 1 P3	Class 1 P3
Organic Vapours	A	N/A	✓	✓	✓	✓	✓	✓	✓	✓
Inorganic Vapours	B		N/A		✓	✓		N/A	✓	✓
Acidic Vapours	E		N/A		✓	✓		N/A	✓	✓
Ammonia Vapours	K		N/A			✓		N/A		✓
Nuisance Odours		N/A	✓	✓	✓	✓	✓	✓	✓	✓
Dusts	P	✓	N/A				✓	✓	✓	✓
Mists		✓	N/A				✓	✓	✓	✓
Water Based Painting		✓	N/A				✓	✓	✓	✓
Solvent Based Brush Painting		N/A	✓	✓	✓	✓	✓	✓	✓	✓
Rubbing Down Paint		✓	N/A				✓	✓	✓	✓
Paint Stripping, Chemical or Heat			N/A				✓	✓	✓	✓
White Spirit		N/A	✓	✓	✓	✓	✓	✓	✓	✓
Chlorine (Cleaning & Pools)			N/A		✓	✓		N/A		✓
Glyphosate (Weed Killer)		✓	N/A				✓	✓	✓	✓
Brick Acid (Graffiti Removal)			N/A		✓	✓		N/A		✓
Formaldehyde			N/A		✓	✓		N/A		✓
Fibres & Fibre Glass		✓	N/A				✓	✓	✓	✓
Plaster		✓	N/A				✓	✓	✓	✓
Silica (Concrete / Stone Cutting)		✓	N/A				✓	✓	✓	✓
Woods (Hard & Soft)		✓	N/A				✓	✓	✓	✓
MDF (Machine Tooling)		✓				N/A			✓	✓
Welding (Ferrous & Lead)		✓	N/A				✓	✓	✓	✓
Earth Moving (Contaminated)						N/A				✓

EN Requirement	Filter Class	Particulate Only Filter		Gas Only Filter			Combined Filter			
		P3 R	A1	A2	ABE1	ABEK1	A1P3 R D	A2P3 R D	ABE1P3 R D	ABEK1P3 R D
		P3	Class 1	Class 2	Class 1	Class 1	Class 1 P3	Class 2 P3	Class 1 P3	Class 1 P3
Weight per filter pair	Actual	125g	210g	210g	230g	230g	250g	250g	280g	280g
	EN140	< 300g								
	EN136	< 500g								
Pressure Drop (Measurement at 95L/min)	Actual	0.9 mbar	0.9 mbar	1.2 mbar	1.0 mbar	1.0 mbar	1.7 mbar	1.9 mbar	1.8 mbar	1.8 mbar
	EN	4.2 mbar	4.0 mbar	5.6 mbar	4.0 mbar	4.0 mbar	8.2 mbar	9.8 mbar	8.2 mbar	8.2 mbar
Efficiency	Actual	> 99.99%	N/A			> 99.99%				
	EN	> 99.95%	N/A			> 99.95%				
Penetration	Actual	< 0.01%	N/A			< 0.01%				
	EN	< 0.05%	N/A			< 0.05%				
Cyclohexane	Actual	N/A	200 min	50 min	150 min	150 min	200 min	50 min	150 min	150 min
	EN	N/A	70 min	35 min	70 min	70 min	70 min	35 min	70 min	70 min
Hydrogen Cyanide	Actual	N/A			>100 min	>100 min	N/A		>100 min	>100 min
	EN	N/A			25 min	25 min	N/A		25 min	25 min
Hydrogen Sulphide	Actual	N/A			>100 min	>100 min	N/A		>100 min	>100 min
	EN	N/A			40 min	40 min	N/A		40 min	40 min
Chlorine	Actual	N/A			>100 min	>100 min	N/A		>100 min	>100 min
	EN	N/A			20 min	20 min	N/A		20 min	20 min
Sulphur Dioxide	Actual	N/A			65 min	50 min	N/A		65 min	50 min
	EN	N/A			20 min	20 min	N/A		20 min	20 min
Ammonia	Actual	N/A			90 min		N/A		90 min	
	EN	N/A			50 min		N/A		50 min	

Workplace Exposure Level - This table is for reference purposes only. A proper risk assessment by qualified personnel should be carried out before selecting an appropriate filter cartridge

## R1100

### Particulate Filters

Particulate filters capture particulates in the air such as dusts, mists and fumes. They do not protect the user against gases or vapors. Particulate filters are classified into three groups, relative to the particulate size filtration capacity and toxicity of the particulate.

**Class P1 Filters** P1 filters protect against mechanically generated particles. P1 filters are available as the powered type, replaceable filter type and disposable type.

**Class P2 Filters** P2 filters protect against mechanically or thermally generated particles (or both). P2 filters are available as the powered type, replaceable filter type and disposable type.

**Class P3 Filters** P3 filters are to protect against highly toxic or irritant particles. P3 filters are available as the powered type and replaceable filter type.  
To achieve P3 filter classification a full-face piece is required (for non-powered air), or a head covering or full face piece for a Powered Air Purifying Respirator (PAPR).  
**Note:** When a P3 filter is used in conjunction with a half face piece, the protection level is equivalent to a P2 filter.

Disposable respirators / dust masks are particulate filters, usually P1 or P2. They cover the mouth and nose and protect the wearer against airborne contaminants including dust, mists, liquids and some fumes, but not gases or vapors.

Dust masks are not suitable where:

- Contaminant concentrations are dangerous to life or health, unknown or exceed the relevant exposure standard
- Toxic gases or vapours are present
- A satisfactory fit of the mask is not obtained due to facial hair or other characteristics that prevent a good seal between the edge of the mask and the wearer's face
- If the atmosphere is deficient in oxygen, a confined space or poorly ventilated area
- If there is a smell or taste of a contaminant and/or if persons in the area experience nose and/or throat irritation – some dust masks do have an active carbon layer added to reduce nuisance levels of organic vapours that can create unpleasant smells







Class	Efficiency	Penetration	Application
P1	80% (Particles to 1µm micron = 0.001mm size)	Not more than 20%	Dust
P2	94% (Particles to 0.3µm micron = 0.0003mm size)	Not more than 6%	Toxic dusts, including welding fumes and asbestos
P3	99.95% (Particles to <0.3µm micron = less than 0.0003mm size)	Not more than 0.05%	Toxic dusts including asbestos, welding fumes (Only achieved with PAPR or Full Face)

### Gas Filters

Classes for gas filters are distinguished by how much gas they're able to absorb. Gas filters are classified by one of the following classes:

- Class AUS** Low absorption capacity filters
- Class 1** Low to medium absorption capacity filters
- Class 2** Medium absorption capacity filters
- Class 3** High absorption capacity filters

Gas and particle filters also use a colour coded system for identification. Multiple colours represent filter type protection:

-  **A** Organic Vapours (boiling point >65°C)
-  **AX** Organic Vapours (boiling point <65°C)
-  **B** Inorganic Gases
-  **E** Acid Gases
-  **K** Ammonia
-  **Hg** Mercury

### Combination Filters

Combination filters are used when gases/vapours occur simultaneously with particles, e.g. in high pressure cleaning, spray painting, heating substances or gas condensation. Select an appropriate combination filter from the Corpro range when subject to this environment.

## Protection Factors

Depending on the combination of cartridge/filter and respirator, different levels of protection may be achieved. The Protection Factor is the reduction in exposure expected with correct use of a respirator. e.g. A protection factor of 10 means the wearer can expect a 10 times reduction in exposure to the airborne concentration of contaminants. As per the table below - the higher the protection factor, the greater the reduction in exposure to airborne contaminants for the wearer.

### Particulate Protection

Respirator	Filter	Protection Factor
Half Face Respirator	P2 Filter	Up to 10
Half Face Respirator	P3 Filter	Up to 10
Full Face Respirator	P2 Filter	Up to 50
Full Face Respirator	P3 Filter	Up to 100

### Gas/Vapour Protection

Respirator	Filter	Protection Factor
Half Face Respirator	Class 1	Up to 10
Half Face Respirator	Class 2	Up to 10
Full Face Respirator	Class 1	Up to 50
Full Face Respirator	Class 2	Up to 100