

TECHNICAL DATASHEET

PRO² FILTERS



DESCRIPTION

The Scott Safety Profile² half face respirator and the Promask Twin full face respirator accept the gas, particle and combined filters from the Scott Safety Pro² filter range using a safety bayonet locking mechanism and featuring unique protective covers with recessed inlet grills. The covers protect the filters from splashes and sparks.

Filters are positioned with the inlet grills to the rear for good balance and an unobstructed field of vision.

The Scott Safety Pro² filters feature a low breathing resistance; they are light in weight and are certified to AS/NZS 1716. All filters are tested on the automated production line as follows:

- particle filters: penetration and resistance
- gas filters: resistance and carbon layer thickness
- combined filters: penetration, resistance and carbon layer thickness

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TEST RESULTS

The Scott Safety twin half face and full face respirator filters are tested individually and supplied airflow is cut in half, ie. 30 l/min test is performed at 15 l/min and 95 l/min is performed at 47.5 l/min.

TECHNICAL SPECIFICATIONS

PRO² P2/P3* PARTICULATE FILTER



COLOUR CODE	PROTECTS AGAINST
	P Solid & liquid, radioactive & toxic particles & microorganisms eg, bacteria, viruses & enzymes

FEATURE	PRO ² P2/P3	AS/NZS 1716 requirement
Weight	69 g	max 500g with full face respirator max 300g with half face respirator
Height of microfibre filter element	11.2 mm	
Diameter	90 mm	
Breathing Resistance		
@ airflow 15 l/min	0.4 mbar	<1.2 mbar
@ airflow 47.5 l/min	1.4 mbar	<4.2 mbar
Protection capacity, min penetration %		
Sodium Chloride NaCl (S)	<0.001%	<0.05%
Paraffin Oil (L)	<0.003%	<0.05%
Other Data		
Casing Material	Polypropylene	
Storage Time	10 years (factory sealed)	
Storage Temperature	-10... +50°C (factory sealed)	
See limitations of use Scott Safety instructions of use for Pro ² filters		

* P2 when used with a Scott Safety Profile² half face respirator and P3 when used with a Scott Safety Promask Twin full face respirator.

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TECHNICAL SPECIFICATIONS

PRO² A2 GAS FILTER



COLOUR CODE	PROTECTS AGAINST
	A Gases & vapours from organic compounds with a boiling point above 65°C

FEATURE	PRO ² A2	AS/NZS 1716 requirement
Weight	84 g	max 500g with full face respirator max 300g with half face respirator
Breathing Resistance		
@ airflow 15 l/min	0.33 mbar	<1.40 mbar
@ airflow 47.5 l/min	1.23 mbar	<5.60 mbar
Gas filter capacity, min allowed breakthrough time @ 15 l/min		
Sodium Chloride NaCl (S)	<0.001%	<0.05%
Paraffin Oil (L)	<0.003%	<0.05%
Dimensions		
Height	55 mm	
Diameter	90 mm	
Volume of carbon	110 ml	
Other Data		
Casing Material	Polypropylene	
Storage Time	5 years (factory sealed)	
Storage Temperature	-10... +50°C (factory sealed)	
See limitations of use Scott Safety instructions of use for Pro ² filters		

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TECHNICAL SPECIFICATIONS

PRO² A1B1E1 GAS FILTER



COLOUR CODE	PROTECTS AGAINST
	A Gases & vapours from organic compounds with a boiling point above 65°C
	B Inorganic gases & vapours, eg. chlorine, hydrogen sulphide, hydrogen cyanide
	E Acid gases & vapours, eg. sulphur dioxide

FEATURE	PRO ² A1B1E1	AS/NZS 1716 requirement
Weight	102 g	max 500g with full face respirator max 300g with half face respirator
Breathing Resistance		
@ airflow 15 l/min	0.35 mbar	<1.0 mbar
@ airflow 47.5 l/min	1.3 mbar	<4.0 mbar
Gas filter capacity, min allowed breakthrough time @ 15 l/min		
Cyclohexane C ₆ H ₁₂ (0.1% vol%)	88min	70min
Chlorine Cl ₂	>45min	20min
Hydrogen Sulphide H ₂ S	>60min	40min
Hydrogen Cyanide HCN	>45min	25min
Sulphur Dioxide SO ₂	>45min	20min
Dimensions		
Height	55 mm	
Diameter	90 mm	
Volume of carbon	100 ml	
Other Data		
Casing Material	Polypropylene	
Storage Time	5 years (factory sealed)	
Storage Temperature	-10... +50°C (factory sealed)	
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TECHNICAL SPECIFICATIONS

PRO² A1B1E1K1 GAS FILTER



COLOUR CODE	PROTECTS AGAINST
	A Gases & vapours from organic compounds with a boiling point above 65°C
	B Inorganic gases & vapours, eg. chlorine, hydrogen sulphide, hydrogen cyanide
	E Acid gases & vapours, eg. sulphur dioxide
	K Ammonia & organic ammonia derivatives

FEATURE	PRO ² A1B1E1K1	AS/NZS 1716 requirement
Weight	102 g	max 500g with full face respirator max 300g with half face respirator
Breathing Resistance		
@ airflow 15 l/min	0.35 mbar	<1.0 mbar
@ airflow 47.5 l/min	1.3 mbar	<4.0 mbar
Gas filter capacity, min allowed breakthrough time @ 15 l/min		
Cyclohexane C ₆ H ₁₂ (0.1% vol%)	88min	70min
Chlorine Cl ₂	>45min	20min
Hydrogen Sulphide H ₂ S	>60min	40min
Hydrogen Cyanide HCN	>45min	25min
Sulphur Dioxide SO ₂	>45min	20min
Ammonia NH ₃	>70min	50min
Dimensions		
Height	55 mm	
Diameter	90 mm	
Volume of carbon	85 ml	
Other Data		
Casing Material	Polypropylene	
Storage Time	5 years (factory sealed)	
Storage Temperature	-10... +50°C (factory sealed)	
See limitations of use Scott Safety instructions of use for Pro ² filters		

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TECHNICAL SPECIFICATIONS

PRO² A2 P2/P3* COMBINATION FILTER



COLOUR CODE	PROTECTS AGAINST
A	A Gases & vapours from organic compounds with a boiling point above 65°C
P	P Solid & liquid, radioactive & toxic particles & microorganisms eg, bacteria, viruses & enzymes

FEATURE	PRO ² A2 P2/P3	AS/NZS 1716 requirement
Weight	142 g	max 500g with full face respirator max 300g with half face respirator
Breathing Resistance		
@ airflow 15 l/min	0.7 mbar	<2.6 mbar
@ airflow 47.5 l/min	2.6 mbar	<9.8 mbar
Gas filter capacity, min allowed breakthrough time @ 15 l/min		
Cyclohexane C ₆ H ₁₂ (0.1% vol%)	50 min	>35 min
Particle filter capacity, min penetration %		
Sodium Chloride NaCl (S)	<0.001%	<0.05%
Paraffin Oil (L)	<0.003%	<0.05%
Dimensions		
Height	60 mm	
Diameter	90 mm	
Volume of carbon	110 ml	
Other Data		
Casing Material	Polypropylene	
Storage Time	5 years (factory sealed)	
Storage Temperature	-10... +50°C (factory sealed)	
See limitations of use Scott Safety instructions of use for Pro ² filters		

* P2 when used with a Scott Safety Profile² half face respirator and P3 when used with a Scott Safety Promask Twin full face respirator.

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TECHNICAL SPECIFICATIONS

PRO² A1B1E1 P2/P3 COMBINATION FILTER

COLOUR CODE	PROTECTS AGAINST
	A Gases & vapours from organic compounds with a boiling point above 65°C
	B Inorganic gases & vapours, eg. chlorine, hydrogen sulphide, hydrogen cyanide
	E Acid gases & vapours, eg. sulphur dioxide
	P Solid & liquid, radioactive & toxic particles & microorganisms eg, bacteria, viruses & enzymes

FEATURE	PRO ² A1B1E1P2/P3	AS/NZS 1716 requirement
Weight	140 g	max 500g with full face respirator max 300g with half face respirator
Breathing Resistance		
@ airflow 15 l/min	0.7 mbar	<2.2 mbar
@ airflow 47.5 l/min	2.4 mbar	<8.2 mbar
Gas filter capacity, min allowed breakthrough time @ 15 l/min		
Cyclohexane C ₆ H ₁₂ (0.1% vol%)	88min	70min
Chlorine Cl ₂	>45min	20min
Hydrogen Sulphide H ₂ S	>60min	40min
Hydrogen Cyanide HCN	>45min	25min
Sulphur Dioxide SO ₂	>45min	20min
Particle filter capacity, min penetration %		
Sodium Chloride NaCl (S)	<0.001%	<0.05%
Paraffin Oil (L)	<0.003%	<0.05%
Dimensions		
Height	60 mm	
Diameter	90 mm	
Volume of carbon	100 ml	
Other Data		
Casing Material	Polypropylene	
Storage Time	5 years (factory sealed)	
Storage Temperature	-10... +50°C (factory sealed)	
See limitations of use Scott Safety instructions of use for Pro ² filters		

* P2 when used with a Scott Safety Profile² half face respirator and P3 when used with a Scott Safety Promask Twin full face respirator.

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TECHNICAL SPECIFICATIONS

PRO² A1B1E1K1 P2/P3* COMBINATION FILTER



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	K Ammonia & organic ammonia derivatives
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FEATURE	PRO ² A1B1E1K1 P2/P3	AS/NZS 1716 requirement
Weight	140 g	max 500g with full face respirator max 300g with half face respirator
Breathing Resistance		
@ airflow 15 l/min	0.7 mbar	<2.2 mbar
@ airflow 47.5 l/min	2.4 mbar	<8.2 mbar
Gas filter capacity, min allowed breakthrough time @ 15 l/min		
Cyclohexane C ₆ H ₁₂ (0.1% vol%)	88min	70min
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Hydrogen Cyanide HCN	>45min	25min
Sulphur Dioxide SO ₂	>45min	20min
Ammonia NH ₃	>70min	50min
Particle filter capacity, min penetration %		
Sodium Chloride NaCl (S)	<0.001%	<0.05%
Paraffin Oil (L)	<0.003%	<0.05%
Dimensions		
Height	60 mm	
Diameter	90 mm	
Volume of carbon	85 ml	
Other Data		
Casing Material	Polypropylene	
Storage Time	5 years (factory sealed)	
Storage Temperature	-10... +50°C (factory sealed)	
See limitations of use Scott Safety instructions of use for Pro ² filters		

* P2 when used with a Scott Safety Profile² half face respirator and P3 when used with a Scott Safety Promask Twin full face respirator.

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APPROVAL INFORMATION

The Scott Safety Profile² Twin Filter Half Face Respirator and the Promask Twin Full Face Respirator in combination with the above Pro² Filters are certified to AS/NZS 1716:2012.

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
053070	Pro ² Filter P2/P3 Particulates (pair)
044071	Pro ² Filter A2 Organic Gas & Vapour (pair)
044072	Pro ² Filter A1B1E1 Organic/Inorganic & Acid Gas & Vapour (pair)
044073	Pro ² Filter A1B1E1K1 Organic/Inorganic, Acid Gas & Vapour, Ammonia (pair)
044081	Pro ² Filter A2 P2/P3 Organic Gas & Vapour & Particles (pair)
044082	Pro ² Filter A1B1E1 P2/P3 Organic/Inorganic, Acid Gas & Vapour & Particles (pair)
044083	Pro ² Filter A1B1E1K1 P2/P3 Organic/Inorganic, Acid Gas & Vapour & Particles (pair)

Note: P2 when used with a Scott Safety Profile² Half Face Respirator and P3 when used with a Scott Safety Promask Twin Full Face Respirator.

MAINTENANCE/CLEANING

Storage and Maintenance of the filter: The filters are sealed in plastic bags by the manufacturer. Store the filters unopened in a clean place at even temperature, most appropriate at 0...+30°C and relative humidity below 75%. Sealed filters tolerate also conditions of -10...+50°C and below 95% RH. The storage period (month and year) for filters is marked on the filter tape. Do not try to regenerate the filters. Never clean the filters with compressed air or compressed water.

After use, the filters are special refuse. Make sure that they are disposed of according to the filtered substance (gases or particles) in accordance with current waste treatment regulations.

DISPOSAL

If the product is to be disposed of, it should be dismantled from the respirator and disposed of as solid waste. Please see local authority regulations for disposal advice and locations.