



SCOTT PROFILE²™ HALF MASK

TECHNICAL DATA SHEET

Description

Profile² is a twin-filter half mask which features a TPE (thermoplastic elastomer) facepiece in three sizes S, M, L. The wide and soft peripheral sealing edge provides a leak-proof and secure fit.

The adjustable, elastic four-point head harness comprises a cradle-type headband and neck strap. It is threaded through the polyacetal (POM) front cover to ensure good stability and balance on the nose and jaw.

The mask features two inhalation valves and one exhalation port. The exhalation channel is protected with a downward facing grille. The exhalation valve disc is made from liquid silicone and the inhalation valve discs from EPDM.

The facepiece meets the Los Alamos Grid panel and EN user test panel requirements. The sizing and anatomic design is based on a wealth of anthropometrical data and a multitude of in-house test panels.



Cartridge filters

Profile² accepts gas, particle and combined cartridges from the Scott Pro² filter range using a safety bayonet locking mechanism and featuring unique protective covers with recessed inlet grilles. The covers protect the filters from splashes and sparks. Filters are positioned with the inlet grilles to the rear for good balance and an unobstructed field of vision.

The Pro² filters feature low breathing resistance; they are light in weight and filter capacity exceeds EN140:1998 standard requirements. 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.



Leakage testing

This can be performed in two alternative ways: 1.) Cover the recessed exhalation port grille with your hand and exhale gently to create overpressure. No outward leakage should be felt around the facepiece edge. 2.) Cover the recessed filter inlet grilles with your palms and inhale to cause the facepiece to collapse slightly. If leakage is detected with either method, re-adjust the head harness or try another mask size.

Cleaning: use lukewarm water and mild detergent (neutral pH 6-8). Do not use solvents (like turpentine, acetone), hot water or bleaching agents (like perborate, percarbonate).



SCOTT PROFILE² HALF MASK

BGIA 10.02.2005. Test report Nr.: 200423612/2120.

Test performance	Profile²	EN 140:1998 requirement
1. Breathing resistance		
1.1. Inhalation 30 l/min	0.08 mbar	max 0.5 mbar
1.2. Inhalation 95 l/min	0.3 mbar	max 1.3 mbar
1.3. Inhalation 160 l/min	0.7 mbar	max 2.0 mbar
1.3. Exhalation 160 l/min	0.45 mbar	max 3.0 mbar
2. Inward leakage (with combined filter Pro² A1B1E1K1 P3)	0.1 % *)	max 2 %
3. CO₂ content	0,5 %	max 1.0 %
4. Weight:		
Size S	113 g	
Size M	114 g	
Size L	118 g	
	(with A1B1E1K1P3 filter ~280 g)	

*) Tested with mask sizes S, L and M. According to the test procedure EN 140:1998 paragraph 7.2.

APPROVALS

Profile² and Pro² filters are fully approved and CE certified to EN140, EN14387:2004, EN 143. EC-type examined by BGIA, ID:0121. CE 0121, Nr. 0501022.

PROTECTION FACTORS

Product type	Nominal protection factor, NPF (CR 529:1993. CEN/TC 79)	UK values, APF (BS 4275. HSE 1998. UK)	Multiples of O.E.L. values German figures (BGR 190 bisherige ZH1/701. 2004. Germany)	Finnish Institut of Occupational Health (Henkilönsuojaimet työssä. FIOH & STM 2001. Finland)
Half mask with particle filter P3	50	20	30	30
Half mask with gas filter	50	10	30	20
Half mask with combined filter	50	10	30	20

MATERIAL DATA

Face piece:	SEBS (TPE)
Cover (front of exhal. valve + body for the harness):	POM (polyacetal)
Body with valve seats:	PA66 (polyamide)
Inhalation valve disc:	EPDM
Exhalation valve disc:	Silicone (LS)
Cradle (head harness):	PP (polypropylene)
Harness :	Elastic PES-band



Maintenance

Use only original spare parts. After use the mask must be checked, cleaned and disinfected. Replace damaged parts. Valve discs must be replaced every other year at the latest.

Storage

The mask should be protected from direct sunlight, grease and oil. The store should be dry and cool. The components should not be more than 5 years old.

Storage of Ready-Pak™ (mask + filters): -10°C...+30°C, max RH 75 %.

After use, an opened filter must be sealed tightly, e.g. in a plastic bag, if it is to be reused, but it must be replaced within 6 months at the latest.

PACK QUANTITIES

	Mask only	Cartridges	Ready-Pak™
Sales pack	1	1 pr	1 + 1 pr
Distributor pack	30 pcs	25 pr	28 (1 + 1 pr)
Shipping palette:			
Air transport	600 pcs	300 pr	280 (1 + 1 pr)
Land transport	840 pcs	500 pr	448 (1 + 1 pr)

SCOTT PRO²™ FILTERS

Particle filter	Ref no	Height of the filter element (mm)		Filter weight (g)
Pro ² P3	053070	12	Ø 90 mm/ h 40 mm	69
Gas filter	Ref no	Volume of carbon (ml)	Dimensions	Filter weight (g)
Pro ² A1	044070	80	Ø 90 mm/ h 55 mm	70
Pro ² A2	044071	110	Ø 90 mm/ h 55 mm	84
Pro ² A1B1E1	044072	85	Ø 90 mm/ h 55 mm	102
Pro ² A1B1E1K1	044073	85	Ø 90 mm/ h 55 mm	102
Combined	Ref no	Volume of carbon (ml)		Filter weight (g)
Pro ² A1-P3	044080	80	Ø 90 mm/ h 65 mm	131
Pro ² A2-P3	044081	110	Ø 90 mm/ h 65 mm	142
Pro ² A1B1E1-P3	044082	85	Ø 90 mm/ h 65 mm	140
Pro ² A1B1E1K1-P3	044083	85	Ø 90 mm/ h 65 mm	140

Storage and maintenance of a filter

The filters are sealed in plastic bags by the manufacturer. Store the filters unopened in a clean place at even temperature, most appropriately at 0...+30 °C and relative humidity below 75 %. Sealed filters will tolerate storage conditions of -10...+50 °C and below 95 % RH. The storage limit (month and year) for filters is marked on the filter label. 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.