PROMASK² FULL FACE MASK

TECHNICAL DATA

DESCRIPTION

Promask² is a twin filter full face mask for use with Pro² filters. Promask² features a non-allergenic silicone facepiece with wide T-bar sealing edge, transparent inner mask with two inhalation valves, 5-point adjustable harness with quick release plastic buckles, speech diaphragm, and panoramic visor. The Promask² is available in two sizes: M standard size and S small.

The inner mask is made from non-allergenic silicone. The visor is polycarbonate PC. A hard-coated solvent and scratch resistant visor; polycarbonate PC HC, is also available.

A custom-made, easy-to-attach spectacle frame is available for wearers of prescription lenses.

A special welding visor for Promask² can be mounted on the mask by two lever-hooks; the flip-up lens accepts the electro-optical "Autoshade" 10/11 or passive lenses (size 60 x 100 mm). The Promask² is supplied with spark guards for the exhalation valve and speech channel.

The optional **Scott Data Carrier** electronic identification system enables tracking and logging of the maintenance history of each mask. The mask can be equipped with an electronic tag and the data is read by a non-contact head and saved to both the tag and company's data system. The **Scott Protester** leak-test device provides a simple and reliable means of testing the integrity of the mask.

Pro² filter range

Promask² 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. 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.

PROMASK²

EC Certificate Nr. 0501032. CE 0121.

TEST RESULTS EN 136:1998. BGIA 17.06.2005

Feature	**Promask²**	**EN 136 requirement**
Breathing resistance*)		
Inhalation • @ 30 l/min • @ 95 l/min • @ 160 l/min Exhalation @ 160 l/min	 0.12 mbar 0.31 mbar 0.62 mbar 0.84 mbar	 max 0.5 mbar max 1.5 mbar max 2.5 mbar max 3.0 mbar
CO_2-content	0.88 %	max 1.0 %
Inward leakage	0.01 %	max 0.05 %
Field of vision Effective Overlapped	 85 % 83 %	 min 70 % min 80 %
Filter thread	Special bayonet connection	7.12.
Weight	540 g	-
Flammability	Passed class 2.	Parts of the mask shall not burn or continue to burn more than 5 s after removal of flame. (Testing in accordance with EN 136: 8.3., 8.5.2. and 8.13.)
Harness	Passed class 2.	Each strap and buckle shall withstand a pull of 150 N for 10 s in the direction of pulling when the FFM is donned. (Testing i.a.w. 136: 8.3. and 8.8.1.) There shall be no permanent linear deformation of each strap of more than 5% after testing at a pull of 50 N for 10 s. (8.3. and 8.8.2)
Strength of connector	Passed class 2.	Connection between the faceblank and connector shall withstand axially tensile force of 500 N. (8.9. and 8.13.)
Mechanical strength of visor	Passed	After the test the visor shall not be damaged when tested by falling a steel ball (22 mm diameter, 43,8 g weight) from the height of 1,30 m on the centre of visor (8.11.).
Approvals	CE 0121. EN 136 class 2	

MATERIAL DATA

Faceblank	Silicone
Inner mask	Silicone; transparent liquid silicone
Visor	Polycarbonate and optional PC HC (hard coated on both sides for scratch and solvent resistance)
Visor frame	Polybutylene terephtalate PBTE (thermoplastic polyester) reinforced
Connector and exhalation channel body	Polyamide (PA) reinforced (glassfibre)
Inhalation channel body	Polyamide (PA)
Speech channel body	PBTE
Speech diaphragm body	Polyamide (PA)
Speech channel cover	Zytel, Polyamide 66 (PA 66)
Inhalation valve seat (of inner mask)	Polypropylene (PP)
Head harness	Silicone
Buckles	Polyamide (PA)
Buckle roller	POM (polyacetal)
Valve discs	Silicone
Valve seat of inhalation valve	Silicone
Filter thread connector	Polyamide PA
Exhalation channel cover	Polyurethane PU

PROTECTION FACTORS FOR FULL FACE MASKS

Combination	**Maximum use of concentrations as multiple of exposure limit** [1)]	**Assigned protection factors** [2)] **BS 4275**	**Nominal protection factor** [3)]
Full face mask and particle filter P3	400 x O.E.L.	40	1000
Full face mask and gas filter class 2	400 x O.E.L.	20	2000

1) ZH1/701 Regeln für den Einsatz von Atemschutzgeräten. Fachausschuß "Persönliche Schutzausrüstung" der ZefU, April 1994. ZH 1/701 RULES FOR THE USE OF RESPIRATORY PROTECTIVE DEVICES 1996 October. HVBG = Hauptverband der gewerblichen Berufsgenossenschaften. Germany.

2) BS4275 HSE 1998. UK

3) Guidelines for selection and use of respiratory protective devices, CR 529:1993 CEN/TC 79. CEN 1993.

Scott recommends that the most conservative value for protection factor should be used. This is in accordance with international best practice.

SCOTT PRO²™ FILTERS

Particle filter	Ref no	Height of the filter element (mm)		Filter weight (g)
Pro² P3	053070	12	Ø 90 mm/ h 40 mm	69
Gas filter	**Ref no**	**Volume of carbon (ml)**	**Dimensions**	**Filter weight (g)**
Pro²A1	044070	80	Ø 90 mm/ h 55 mm	70
Pro² A2	044071	110	Ø 90 mm/ h 55 mm	84
Pro² A1B1E1	044072	85	Ø 90 mm/ h 55 mm	102
Pro² A1B1E1K1	044073	85	Ø 90 mm/ h 55 mm	102
Combined	**Ref no**	**Volume of carbon (ml)**		**Filter weight (g)**
Pro² A1-P3	044080	80	Ø 90 mm/ h 65 mm	131
Pro² A2-P3	044081	110	Ø 90 mm/ h 65 mm	142
Pro² A1B1E1-P3	044082	85	Ø 90 mm/ h 65 mm	140
Pro² A1B1E1K1-P3	044083	85	Ø 90 mm/ h 65 mm	140

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