

# 3M™ Promask Single Full Face Respirator

## Technical Data Sheet



### Description

The 3M™ Promask Single is a multi-functional full face respirator suitable for use with negative pressure and powered air respirators. The respirator is also suitable for use with a compressed airline system.

The Promask full face single filter respirator is made from specially engineered halo-butyl elastomer compound offering high resistance to chemicals and aging. The facepiece has a wide T-bar sealing edge, transparent inner mask with two inhalation valves and a 5-point adjustable rubber harness with quick release plastic buckles. The speech diaphragm helps transfer clear and audible speech along with a sweat port in the chin pocket providing added comfort during extended wear times. Wide panoramic polycarbonate visor to maximise the field of vision, with an optional polycarbonate hard coat visor to enhance resistance to scratching.

The Promask is available in two sizes: Medium general size and Small.

The Promask Single utilises the full range of 3M™ Pro2000 filters.

### Accessories

A special welding visor frame for the Promask can be mounted on the respirator by two lever hooks. The flip-up lens can be fitted with welding glass of different shade or with an electro-optical "Autoshade" 10/11 lens (size: 60 x 100mm). The Promask can be provided with a sparkguard for the exhalation valve or speech channel.

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

### Standards

The 3M™ Promask Single full face respirator is certified to AS/NZS 1716:2012.



### Specifications

	Promask Single
Facepiece	Halo-butyl elastomer compound, including: Butyl IRR, EPDM & natural rubber (Procomp™)
Inner Mask	Thermoplastic Elastomer (TPE)
Visor	Polycarbonate (PC) & optional PC HC (hard coated on both sides for scratch & solvent resistance)
Head Harness	Natural Rubber (NR)
Valve Discs	Silicone
Visor Frame	Polybutylene terphthalate PBTE (thermoplastic polyester) reinforced
Connector with exhalation channel body	Polyamide (PA), reinforced (glass fibre)
Inhalation channel body	Polyamide (PA)
Speech channel body	Polyamide (PA)
Speech diaphragm body	Polyamide (PA)
Speech channel cover	Polyamide (PA)
Inhalation valve seat (of inner mask)	Polypropylene (PP)
Buckles	Polyamide (PA)
Buckle Roller	Polyacetal (POM)
Valve seat of inhalation valve	Silicone
Filter thread connector	Polyamide (PA)
Exhalation channel cover	Polyurethane (PU)

## Weight

Filter weight can vary.

Combination	Weight	Weight with PF10 Filter	Weight with CF22 A2P3	Weight with CF32 A2B2E2K2P3
Promask	525g	615g	755g	895g

## Procomp Material Properties (Teknikum Oy)

Combination	
Feature	Promask Procomp
Mechanical Durability	Good
Chemical Resistance	Excellent
Temperature Range	Excellent (-40... +100°C)
Steam Resistance	Good
Leak-tightness (gas & vapour impermeability)	Excellent
Ozone Resistance	Excellent
Light Resistance	Good
Resistance to wear & tear	Good

## Visor Properties

Features	Polycarbonate (PC)	Hard Coated Polycarbonate (PC HC)
Impact Resistance	Excellent	Good
Scratch Resistance	Good	Excellent
Maximum Heat Resistance	140°C	140°C
Chemical Resistance (Hydrocarbons)	Average	Good

## Protection Factors

According to AS/NZS 1715.

Combination	Required Min Protection Factor AS/NZS 1715*	Maximum Gas/Vapour Concentration Present In The Air In Ppm (Volume)
Full Face Respirator with Particulate P3 Filter	Up to 100	
Full Face Respirator with Proflow SC PAPR / Particle Filter P3	100+	
Full Face Respirator with Proflow SC PAPR / Gas Filter Class 1	Up to 10	1000 ppm
Full Face Respirator with Airline	100+	5000 ppm

\*Refer AS/NZS 1715: Selection use and maintenance of respiratory protective equipment.

## Filters

The 3M™ Pro2000 filters (40mm thread) for the Promask single filter full face respirator are also certified to AS/NZS 1716:2012.

## Maintenance/Cleaning

**Maintenance:** Use only original spare parts. After use, the respirator must be checked, cleaned and disinfected. Replace damaged parts.

Combination	Work to be done	Intervals			
		Before use	After use	Annually	Every 6 yrs
Mask Complete	Cleaning		•	•	
	Disinfection		•	•	
	Test for function & leak-tightness	•	•*	•	
	Pre-use check done by the user	•			
Valve discs	Replacement visor, head harness, buckles, inner mask & other parts		•*		
	Check		•	•	
	Replace		•*	•	•
Inhalation valve	Check tightness of exhalation valve disc		•	•	
	Check valve seat		•	•	•
Speech Diaphragm	Check		•	•	
	Replace				•

**Cleaning:** Use a lukewarm water and mild detergent (neutral pH 6-8). Do not use solvents (like turpentine, acetone), hot water or bleaching agents (like Perborate, Percarbonate). After cleaning, disinfect the inside/faceseal with a disinfection solution eg, Distel.

## Storage

The Promask Single respirator 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 respirator:** -10°C...+50°C, and relative humidity (RH) under 75%.

**Storage of respirator and filters:** -10°C...+30°C, max RH 75%. After use, an opened filter must be sealed tightly if it is to be reused, but it must be replaced within 6 months at the latest.

**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 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

As the respirator & filters are subject to dirt, dusts and liquids etc, they cannot be recycled. 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.

## Ordering Information

3M Code	Model #	Description
XP100547205	12670	Promask Single Full Face Respirator Sml
XP100544079	12681	Promask Single Full Face Resprtr Med Lrg

### Accessories

3M Code	Model #	Description
XP100544160	012790	Prescription Spectacle Frame
XP100544145	012698	Visor Overlays (Set Of 10)
XP100544004	010185	Polyethylene Storage Case
AT010655788	MASKBAGL	Canvas Bag For Hf Mask Fl Face Mask Fltr
XP100058310	1017652	Distel Wipes 100Pk 135mm X 185mm
XP100544970	RXFTA/STAN	Din40 Portacount Adaptor
XP100549235	7422FIT	Profile Portacount Fit Test Adaptor
XP100544194	012796	Clip-In Welding Shield With Shade10 Lens

3M Code	Model #	Description
XP100550605	063287	Welding Shield 10Din 60X110mm
XP100547676	063261	Welding Shield 11Din 60X110mm
XP100547684	063262	Welding Shield 12Din 60X110mm
XP100550597	063263	Welding Shield 13Din 60X110mm
XP100547700	063298	Auto Darkening Welding Visor 10 11Din
AT010645490	012797	Welding Balaclava Suit Promask
XP100550613	063288	Glass Fixing Spring (Metal)
XP100547403	013355	Inner Mask (Tpe) With Fastening Ring (1)
XP100544111	012690	Valve Disc Set (7A 7B 7C)
XP100547239	012691	Inner Mask Silicone With Fastening Ring
XP100546108	012692	Rubber Head Harness (2)
XP100547247	012693	Visor Frame Set (4)
XP100544129	012694	Harness Buckle Set (5 Pieces) (3)
XP100544137	012695	Polycarbonate Visor (5)
XP100547254	012697	Neckband Promask
XP100547270	012775	Webbing Head Harness Promask Suit M98
XP100544186	012795	Polycarbonate Visor (Hard Coated) (5)
XP100544103	012689	Valve Seat Set (6A 6B)
XP100544087	012687	Speech Diaphragm (8)
XP100544095	012688	Exhalation Valve Cover (9)
XP100547296	012794	Speech Channel Cover (10)
XP100547288	012777	Din40 Blanking Plug 40mm
XP100547189	012658	Spark Guard - Speech Diaphragm
XP100547197	012659	Spark Guard - Exhalation Valve
XP100547262	012705	Promask Twin Gasket
XP100065687	1033178	071.733.99 Neckstrap Vision 3 Promask

## Important Notice

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