

# 3M™ FF-300 Full Face Respirator

## Technical Data Sheet



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### Description

The 3M™ FF-300 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 FF-300 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 FF-300 is available in two sizes: Medium/Large size and Small.

The FF-300 is compatible with approved 3M™ DT-Series filters and PF-600E-ASB Powered Air Purifying Respirator (PAPR)



### Accessories

The FF-300 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™ FF-300 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.

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Combination	Weight	Weight with PF10 Filter	Weight with CF22 A2P3	Weight with CF32 A2B2E2K2P3
FF-300	525g	615g	755g	895g

## Procomp Material Properties (Teknikum Oy)

Combination	
Feature	Promask Procomp
Mechanical Durability	Good
Chemical Resistance	Excellent
Temperature Range	Excellent (-40°C to +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 Gas & Vapour Filter Class 1	Up to 50	1000 ppm
Full Face Respirator with Gas & Vapour Filter Class 2	Up to 100	5000 ppm
Full Face Respirator with PF-600E-ASB PAPR-P3	100+	
Full Face Respirator with PF-600E-ASB PAPR-1 Gas & Vapour Filter	Up to 10	1000 ppm

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

## Filters

The 3M™ DT-Series filters (40mm thread) for the FF-300 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 5 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, Trigen

\*If damaged

## Storage

The FF-300 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 to +50°C, and relative humidity (RH) under 75%.

**Storage of respirator and filters:** -10°C to +30°C, max RH 75%. After use, an opened gas & vapour 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°C to +30°C and relative humidity below 75%. Sealed filters tolerate also conditions of -10 to +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 waste. 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
UU010978961	FF-301	FF-300 Full Face Respirator Small
UU010978953	FF-302	FF-300 Full Face Respirator Medium/Large

### Accessories

3M Code	Model #	Description
XP100546108	FF-300-04	Head Harness Assembly
UU011565973	FF-300-05	Nose Cup Assembly
XP100547296	FF-300-06	Speech Channel Cover
XP100544087	FF-300-07	Speech Diaphragm Assembly
XP100058310 XP100547197	FF-300-08	Spark Guard Kit inc Solid front and Exh cover
XP100547247	FF-300-09	Visor Frame Assembly
XP100544103	FF-300-11	Inhalation Valve Seat Set

3M Code	Model #	Description
UU011589122	FF-300-12	Inhalation and Exhalation Valve Set
XP100544160	FF-300-20	Spectacle Kit for FF-300
XP100547684	FF-300-21	Exhalation Valve Cover
XP100544129	FF-300-41	Buckle Set for Harness
XP100544137	FF-300-925	Standard Visor - Polycarbonate
XP100544145	FF-300-926	Visor Peel Off
XP100544186	FF-300-927	Premium Visor - Polycarbonate Hard Coated
XP100547254	SC-3604	Neck Strap Assembly
UU011580360	SC-6611	DIN40 Quantitative CNC Fit Test Adaptor

### Pre-filters

3M Code	Model #	Description
UU010979753	SS-6601	Pre-Filter Kit for DT-Series Filters
XP100544442	SS-6607	DT- Series Filter Covers Orange Polyethylene

### Accessories

3M Code	Model #	Description
XP100218930	SS-6603	Filter Shower Cover

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