

 **Speedglas™**



# Welding Directory



As one of the world's leading suppliers of safety and protective equipment our goal is to ensure that we satisfy your needs through the provision of exceptional leadership, expertise, quality and service excellence. Our success is measured by your success. If we can make your life and that of your workforce easier, healthier, safer and more productive we are moving in the right direction.

We believe that health and safety is first and foremost about safeguarding worker welfare. A secure, safe working environment is paramount in any business. But we also believe that improving worker protection, comfort and productivity is a more ambitious goal. One we firmly believe in.

At 3M we don't take safety for granted. The health and welfare of your workforce depends on it. So by working in association with skilled safety practitioners, partners and customers, our people are committed to ensuring that we help you create an environment that protects your workforce – effectively, efficiently and economically.

Your success is our achievement. To deliver on our commitment requires a culture of accountability, customer inspired innovation, knowledge and expertise, fuelled by a deep understanding of your needs and the safety needs of your workforce.

With our global technology, manufacturing and knowledge network we do more than simply develop products that ensure your workforce can operate in safety and comfort. We go further to provide good design, cross-over compatibility, expertise, comprehensive support and continuously evolving a range of product options.



# Continuously inspired by welders

## Customer support

You can buy 3M confident in the knowledge that our products will do the job and more. You can also rest assured that our product range is backed by first class support materials and advice, so you'll always know where to turn.

For advice, information and technical support on the selection and use of 3M Welding Equipment contact the 3M Health and Safety Helpline.

A range of technical literature, posters, selection guides and fact sheets are freely available from the 3M Health and Safety Helpline to help you with your safety requirements.

More information on products and services from 3M is available from our website. Downloads, legislation, special offers, contact 3M, where to buy, maintenance packs and much more can all be found at:  
**www.3M.co.uk/speedglas**

**3M™ Speedglas™ Welding Shields**

### Record Card

Care and Maintenance

To maintain protection levels, optimise the effective lifetime of the system and avoid the additional cost of replacement, it is extremely important to carry out regular checks on your equipment.

Maintenance Record ID: \_\_\_\_\_ Company Name: \_\_\_\_\_  
 System ID: \_\_\_\_\_ Company Address: \_\_\_\_\_  
 Model No: \_\_\_\_\_ Equipment Used In: \_\_\_\_\_  
 Equipment Used By: \_\_\_\_\_

Date	Healthy	Turbo not active	Parts Replaced	Signature

As part of CE marking requirements, model cards such as this must be issued for marking checks for each system.

**3M**

**3M Welding**

### 3M™ Adflo™ Powered Air Turbo

Care and Maintenance

The 3M Adflo Powered Air Respirator System is a coordinated face and breathing protection device, for increased comfort and safety in welding.

To optimise the effective lifetime of your welding equipment and avoid the additional cost of replacement, regular maintenance is important.

**Before Use**

- Check the Adflo is fully charged and their capacity.
- Inspect the Adflo for damage.
- Inspect the Adflo for damage and contamination. Remove the Adflo from the Adflo if necessary.
- Inspect the Adflo for damage and contamination. Remove the Adflo from the Adflo if necessary.
- Inspect the Adflo for damage and contamination. Remove the Adflo from the Adflo if necessary.
- Inspect the Adflo for damage and contamination. Remove the Adflo from the Adflo if necessary.
- Inspect the Adflo for damage and contamination. Remove the Adflo from the Adflo if necessary.
- Inspect the Adflo for damage and contamination. Remove the Adflo from the Adflo if necessary.

**After Use**

- Clean the Adflo after each use with a clean cloth or water if used in a dusty or dirty environment.
- The Adflo should be stored in a clean, dry, and well-ventilated area.
- The Adflo should be stored in a clean, dry, and well-ventilated area.
- The Adflo should be stored in a clean, dry, and well-ventilated area.
- The Adflo should be stored in a clean, dry, and well-ventilated area.
- The Adflo should be stored in a clean, dry, and well-ventilated area.
- The Adflo should be stored in a clean, dry, and well-ventilated area.
- The Adflo should be stored in a clean, dry, and well-ventilated area.

**3M Health and Safety Helpline**  
 0800 800 60 60 UK 1 800 320 500 IRELAND

**3M**

**Occupational Health & Environmental Safety Group**  
 3M™ Speedglas™

### Premium Performance

made simple

3M Speedglas™

**3M**

**Clever thinking at work**

**3M Health & Safety Helpline**  
 Monday - Friday 9 to 5

**0870 60 800 60 UK 1 800 320 500 IRELAND**

The brand that introduced the ADF



## Eye and face protection

The innovator of the 3M™ Speedglas™ Auto-Darkening Welding Filter completed his thesis in the shipyards of Sweden studying ways to protect welders' eyes and skin from harmful UV radiation. The studies were conducted more than 30 years ago and resulted in the first prototype of an auto-darkening welding filter, a combination of liquid crystal elements, polarizers and electronics.

### 3M Auto-Darkening Filters

- The brand that introduced the ADF
- A quick guide to all our auto-darkening welding filters

### 3M™ Speedglas™ Welding Shields

- 3M™ Speedglas™ 100 Welding Shields
- 3M™ Speedglas™ 9100 Welding Shields
- 3M™ Speedglas™ 9002D Welding Shield
- 3M™ Speedglas™ SL Welding Shield



## How ADFs work

The key point to remember with 3M™ Speedglas™ auto-darkening welding filters (or ADFs) is consistency. They enable constant, comfortable vision, they provide protection from ultraviolet and infrared (UV/IR) radiation and they consistently auto-switch from clear to dark and back again, in just the way the welder wants.



### Before

With the shield in the safe down position, the welder has a clear view through the welding filter. Both hands are free and the electrode can be precisely positioned.



### During

Within 0.1 milliseconds of the arc strike, the filter has switched to the dark state.



### After

The filter automatically returns to the clear state after welding is complete, allowing for immediate and safe inspection of the weld pool, as well as preparation for the next weld.

Technical data Speedglas Welding Shield with ADF	3M™ Speedglas™ 100 Shield Black and Graphics Edition	3M™ Speedglas™ 9000 Shield			3M™ Speedglas™ SL Shield	3M™ Speedglas™ 9100 Shield		
Welding Filter Options	100V ADF (variable)	9002D ADF (dual)	9002V ADF (variable)	9002X ADF (variable)	SL ADF (variable)	9100V ADF (variable)	9100X ADF (variable)	9100XX ADF (variable)
Viewing area	44 x 93mm	42 x 93mm	42 x 93mm	55 x 107mm	42 x 93mm	45 x 93mm	54 x 107mm	73 x 107mm
Weight (complete helmet incl ADF)	510g	710g	750g	770g	360g	510*g	520*g	545*g
Dark state	Shade 8-12	Shade 9/11	Shade 9-13		Shade 8-12	Shade 5, 8, 9-13		
Light state	Shade 3	Shade 3	Shade 3		Shade 3	Shade 3		
UV / IR Protection	Shade 12 (permanent)	Shade 13 (permanent)			Shade 12 (permanent)	Shade 13 (permanent)		
Auto ON	No	No			Yes	No		
Switching time, light - dark	0,1 ms (+23°C)	0,4 ms (+23°C)	0,1 ms (+23°C)		0,1 ms (+23°C)	0,1 ms (+23°C)		
Delay (switching time, dark - light)	100-250 ms	100-200 ms	60-500 ms		60-250 ms	40-1300 ms		
SideWindows option	No	Yes			No	Yes		
Exhaust vents	No	Yes			No	Yes		
Hard hat option	Yes	Yes	Yes	Yes	No	Yes		
Solar cell	No	No	No	Yes	No	Yes	Yes	No
Number of sensors (arc detection)	2	2	2	2	2	3	3	3
Battery lifetime	1 500 hours	1 500 hours	1 500 hours	3 000 hours	1 500 hours	2 800 hours	2 500 hours	2 000 hours

\* Weight of 9100 shield without SideWindows.

# A quick guide to our Auto-Darkening Welding Filters

The 3M™ Speedglas™ Auto-Darkening Filter (ADF) was one of the first of its type on the market, bringing a new standard to eye protection and comfort for welders. Today there is a great family of 3M™ Speedglas™ Welding Shields, each model with its specific series of welding filters.

## Before you select a model, ask yourself:

- How will I use my ADF?
- Do I occasionally change welding process/shade number?
- This is a long term investment. A variable welding filter offers more flexible features for new working conditions.

## Filter Guide

There are a few parameters that affects the performance of an auto-darkening welding filter like the type of welding machine, working environments etc.

The table below is a general guide to the various models of 3M™ Speedglas™ Auto-Darkening Welding Filters:

	Speedglas 9100XX	Speedglas 9100X	Speedglas 9100V	Speedglas SL	Speedglas 9002X	Speedglas 9002V	Speedglas 9002D	Speedglas 100V
Dark state	Shade 5, 8, 9-13 (variable)	Shade 5, 8, 9-13 (variable)	Shade 5, 8, 9-13 (variable)	Shade 8 -12 (variable)	Shade 9-13 (variable)	Shade 9-13 (variable)	Shade 9/11 (dual)	Shade 8 -12 (variable)
MMAW (Electrode)	Optimised	Optimised	Optimised	Optimised	Optimised	Optimised	Optimised	Optimised
MIG/MAG	Optimised	Optimised	Optimised	Optimised	Optimised	Optimised	Optimised	Optimised
TIG (>20A)	Optimised	Optimised	Optimised	Optimised	Optimised	Optimised	Suitable	Suitable
TIG (1A-20A)	Optimised	Optimised	Optimised	Suitable	Suitable	Suitable	Not recommended	Not recommended
Plasma (welding and cutting)	Optimised	Optimised	Optimised	Suitable	Suitable	Suitable	Not recommended	Not recommended
Risk of hidden arc	Optimised	Optimised	Optimised	Suitable	Suitable	Suitable	Not recommended	Not recommended
Tack welding	Optimised	Optimised	Optimised	Suitable	Suitable	Suitable	Suitable	Suitable
Grinding	Optimised	Optimised	Optimised	Not recommended	Suitable	Suitable	Suitable	Suitable

For assistance with choosing the right ADF, please call the 3M Safety Helpline on **0870 60 800 60** (UK) or **1 800 320 500** (Ireland)



## 3M™ Speedglas™ 100 Welding Shields

The highly-affordable 3M™ Speedglas™ 100 Welding Filter has excellent optical quality, reliable light-to-dark switching, and can be used with most arc welding processes, such as stick (MMA), MIG/MAG, and many TIG applications.

The easy-to-use 3M™ Speedglas™ 100 welding shield is the ideal 'first' auto-darkening shield for users who weld infrequently but can benefit from the ability to always see clearly with their welding protection in place. In addition to the black shield there are 12 graphic shields available – all with specific identity. Also available is the 3M™ Speedglas™ 100 Series hard hat option for mandatory head protection areas.

### Features and Benefits:

- UV/IR protection shade 12 permanent

#### Variable Shade Welding Filters (100V)

- Three selectable sensitivity settings: a normal setting used for most types of welding, a setting for other welders working nearby and a setting for low-current or stable arc welding
- Five user-selectable dark shades 8-12
- Switching time light-dark 0,1 ms



#### 3M™ Speedglas™ 100 Razor Dragon Welding Shield

Classification 1/1/2  
Conforms to EN 379

### 3M Speedglas 100 Welding Shields Graphic Editions



**Boneyard**  
75 23 20



**Ice Hot**  
75 25 20



**Razor Dragon**  
75 24 20



**Xterminator**  
75 22 20



**Raging Skull**  
75 26 20



**Trojan Warrior**  
75 16 20



**Blaze**  
75 12 20



**Aces High**  
75 17 20



**Steel Eyes**  
75 21 20



**Jewel Skull**  
75 19 20



**Steel Rose**  
75 18 20



**Wild'n'Pink**  
75 20 20



75 11 20 : 3M™ Speedglas™ 100 Black Welding Shield



3M™ Speedglas™ 100 Hard Hat Option

78 31 20 : 3M™ Peltor™ G3000 Hard Hat  
The Peltor G3000 Hard Hat is produced in high quality UV-stabilised ABS plastic. This is one of the lightest hard hats on the market. It meets European standard EN 397 with approved extra requirement for low temperature (-30°C).



75 00 20 : 3M™ Speedglas™ 100V Filter  
Viewing area: 44 x 93mm



## 3M™ Speedglas™ 9100 Series Welding Shields

Optimise your welding comfort, coverage and control. The 3M™ Speedglas™ 9100 Welding Shield features a head suspension system that profiles your unique head shape for a secure, stable fit.

### High comfort head suspension

Two crown straps gently saddle the top of the head for increased shield stability and better weight distribution. Both straps are adjustable to fit virtually all head shapes and sizes.

The back portion of the headband is self-adjusting and swivels to fit different head shapes. When wearing a cap backwards you simply turn the back portion upside-down.

The headband can also be manually tightened to your personal preference. The smooth ratchet mechanism allows for precise tightening control.

A snap adjustment allows you to set the shield at 9 different angles.



The front of the headband self-adjusts to match your forehead. Pressure is evenly distributed to sets of twin pads to fit the exact shape of your head.

Four settings let you determine the distance between your face and the shield. This allows you to keep the shield as close as possible to your face for a greater view and reduces the load on your neck muscles.

Small, Medium or Large?  
You can adjust the width of the head suspension to your own head size – from 50cm to 64cm.

We've lowered the centre of gravity to be just above your ears! This makes the shield more stable in both the up and down positions, as well as reducing the leveraged strain on your neck. Large, rubber, overmoulded knobs make it easy to adjust the up-and-down pivot action, even when wearing gloves.

#### More comfort when raised

Lifted into the raised position, the shields "high point" is lower than many other shields. The smooth up-and-down pivot action can be "locked" in the up position – a light pull lowers the shield back down again.

#### Excellent optics, bigger view

The 3M™ Speedglas™ 9100 Series Welding Filters continue our tradition of outstanding optical quality, including uniform shading and minimal distortion across the entire filter viewing area.

#### Wider field of view

Introducing the 3M™ Speedglas™ 9100FX Welding Shield, a flip-up combination of an ADF welding shield and a protective visor.



# 3M™ Speedglas™ 9100 and 9100FX Welding Shields

The 3M™ Speedglas™ 9100 Series Welding Shields are available either with ADF in a fixed position or with the ADF in a flip-up visor which can be lifted to leave a clear visor.

The 3M™ Speedglas™ 9100FX Series Welding Shield features a flip-up combination of an auto-darkening welding shield and a protective visor. Not only is the viewing area of the shield larger than on previous models – 17 x 10cm – the geometry of the shield has also been redesigned to increase peripheral vision.

## Features and Benefits:

- 30% larger viewing area than any other Speedglas welding filter (9100XX)
- Adjustable sensitivity of arc detection
- Seven variable dark shades (5, 8, 9-13), including shades for gas welding, micro-plasma and low-amp TIG
- Exclusive shade 5 SideWindows option
- The big 17x10cm clear protective visor is curved, increasing your peripheral vision
- Increased coverage for ear and neck
- Exhaled air is channelled out via side exhaust vent



### 3M™ Speedglas™ 9100 Welding Shield

Classification 1/1/1/2  
 Conforms to EN 175 level B and EN 379  
 Light state shade 3

#### Part Numbers:

50 18 05 : 9100 Shield with 9100V Filter  
 50 18 15 : 9100 Shield with 9100X Filter  
 50 18 25 : 9100 Shield with 9100XX Filter

### 3M™ Speedglas™ 9100FX Welding Shield

Classification 1/1/1/2  
 Conforms to EN 175 level B and EN 379  
 Light state shade 3

#### Part Numbers:

54 18 05 : 9100FX Shield with 9100V Filter  
 54 18 15 : 9100FX Shield with 9100X Filter  
 54 18 25 : 9100FX Shield with 9100XX Filter

#### 3M™ Speedglas™ 9100 Filter Options:

50 00 25 : 3M™ Speedglas™ 9100XX Filter  
 50 00 15 : 3M™ Speedglas™ 9100X Filter  
 50 00 05 : 3M™ Speedglas™ 9100V Filter

#### 3M™ Speedglas™ 9100 Consumables:

52 60 00 : outer protection plate standard (pck 10)  
 52 70 00 : outer protection plate scratch resistant (pck 10)  
 16 80 15 : 9100 sweatband (pck 3)

## All shields fit well with 3M Respiratory Protection

3M™ 4000 Series Respirator



3M™ 7500 Series Half Mask



3M™ 9900 Series Particle Respirator  
 Please check page 23 for details





## 3M™ Speedglas™ 9002D Welding Shield

With a dual shade filter and two sensitivity levels, the 3M™ Speedglas™ 9002D offers the welder an excellent choice of settings. The 3M Speedglas 9002D Welding Shield features side windows and CO<sub>2</sub> reduction vents for improved comfort. The Speedglas 9000 Welding Shield is also available with a safety helmet, especially designed for welders working in areas with overhead hazards.

### Features and Benefits:

- Available as complete shield with Speedglas 9002D welding filter, shade 9/11 (dual). The 9002V and 9002X filters can still be ordered as spares
- Speedglas SideWindows
- Exhaust vents
- Light state shade 3
- Switching time light-dark 0.4ms (+23°C)



**3M™ Speedglas™ 9002D Welding Shield**  
 Classification 1/2/2  
 Conforms to EN 379, EN 175 level F  
 40 18 40 : **9002 Shield with 9002D Filter**

**3M™ Speedglas™ 9002 Consumables**  
 42 60 00 : **outer protection plate standard**  
 (pck 10)  
 42 70 00 : **outer protection plate scratch resistant**  
 (pck 10)  
 16 90 01 : **Throat cover, Teca Weld**



**3M™ Speedglas™ Welding Filter Options:**  
 40 00 80 : **3M™ Speedglas™ 9002X Filter**  
 Viewing area: 55 x 107mm  
 40 00 70 : **3M™ Speedglas™ 9002V Filter**  
 Viewing area: 42 x 93mm  
 40 00 40 : **3M™ Speedglas™ 9002D Filter**  
 Viewing area: 42 x 93mm

### All shields work well with 3M Hearing Protection

3M™ 1310 Cap Banded Ear Plugs



3M™ E-A-R™ Ultrafit™ Corded Ear Plugs



3M™ E-A-R™ Push-Ins™ Ear Plugs



48 38 00 : **3M™ Speedglas™ 9000 ProTop Welding Shield**  
 Classification 1/1/1  
 Conforms to EN 379, EN 175

**3M™ Speedglas™ ProTop Consumables**  
 19 67 05 : **Safety helmet white, other colours upon request**  
 19 71 50 : **Safety helmet assembly parts**

# 3M™ Speedglas™ SL Welding Shield

Welders have asked for two things in personal protection: lighter weight and more comfort. Our challenges in designing this shield were to significantly reduce its weight, while maintaining the performance and protection that welders worldwide have come to expect in every Speedglas product. The result of our efforts: a 360 gram auto-darkening welding shield.

## Features and Benefits:

### The Shield: stronger, thinner

- Strong lightweight material with excellent protection and coverage
- Non-absorbent material, that retains its performance in high humidity
- Back-and-forth adjustments allow for better fit and safety
- Ideal for tight spaces

### Auto-Darkening Welding Filter

- For most arc welding processes – such as MMA, MIG/MAG, TIG and plasma welding
- Viewing area 42 x 93mm
- Light state shade 3
- Variable dark shade 8-12
- Switching time light-dark 0,1 ms (+23°C)

### The Headband: Fits better, feels cooler

- A pattern of holes for breathability and better conformity to the welder's head
- Accommodates smaller head sizes; its full range is from 50cm to 64cm



70 11 20 : 3M™ Speedglas™ SL Welding Shield

Classification 1/1/1/2  
Conforms to EN 379, EN 175 level F



### 3M™ Speedglas™ SL Consumables:

70 00 20 : Speedglas SL Auto-Darkening Filter Variable 8-12

72 60 00 : Speedglas SL Outer Protection Plate Standard (pk 5)

42 80 20 : Speedglas Inner Protection Plate (ADF)

16 80 10 : Sweatband, fleecy cotton

## Performance and Comfort go hand in hand



Not even the best protective equipment will be used all day if it's not comfortable. 3M™ Speedglas™ Welding products are always designed with user comfort and performance in mind.

Obviously, good general ventilation is required for all working environments. To capture welding fumes, local exhaust ventilation and “on-gun, fume-extractors” are typically used.

In addition to local exhaust ventilation, welders often require respiratory protective equipment to further reduce exposure to contaminants.





- A general guide to respiratory protection
- 3M™ Speedglas™ 9100 Air / FX Air Powered & Supplied Air Respirators
- Care and Maintenance



## A general guide to respiratory protection

Welding generates harmful airborne particles and gases known to cause short and long term health problems for welders. Respiratory Protective Equipment (RPE) may be used to help reduce exposure to these hazards.

Two types of RPE are used to protect welders:

Filtering devices Filter contaminants from the air			Supplied air devices Use breathable quality air from a compressor
Reusable Respirators	Disposable Respirators	Powered Respirators	Air Regulator
			

Ventilation of the work area is important to help reduce the airborne concentration of contaminants and to ensure that the oxygen in the air is maintained at a safe level. Oxygen deficiency (i.e. <19.5% oxygen) can occur when welding in poorly ventilated areas or confined spaces. 3M do not offer RPE for use in oxygen deficient atmospheres.

The protection offered by RPE depends on the type of device and, if applicable, the filters fitted to it.

The levels of protection of 3M RPE for welders are listed in the table below. The Assigned Protection Factor (APF) for the equipment is published by the Health and Safety Executive in its book HSG-53. An APF of 20 indicates equipment that, when used properly, will reduce exposure by a factor of 20.

	Filtering devices			Supplied air device	
Model	9925/9928	7500 with P2 filters	7500 with P3 filters	Adflo with Speedglas welding shields	Fresh-Air C / V-500E with Speedglas welding shields
Type	Disposable Respirator	Reusable Respirator	Reusable Respirator	Powered Air Respirator	Supplied Air Respirator
APF	10	10	20	20 or 40 <sup>†</sup>	20 or 40 <sup>†</sup>
Additional protection	Ozone up to 10xWEL* and nuisance level** organic vapours	Options available for Ozone up to 10xWEL* and nuisance level** gases/ vapours	Options available for Ozone up to 10xWEL* and nuisance level** gases/ vapours	Options available for gases and vapours	
*WEL = Workplace Exposure Limit    **Nuisance level = below WEL    †APF of 40 with 9100FX Air and 9100 MP. APF of 20 with 9100 Air					



## Filtering devices

Welders requiring respiratory protection need particle filters to capture metal fumes. In addition they may need gas and vapour filters depending on the type of work and the hazards generated. Harmful gases and vapours may be generated by ultraviolet light from the arc reacting with the air or by the burning of coatings or contamination on the metal.

### Filtering devices can be either disposable or reusable:

Disposable respirators - e.g. 3M™ 9925/9928

Reusable half face masks - e.g. 3M™ 7500

Reusable powered respirators - e.g. 3M™ Adflo

### The options for gas and vapour filters are:

Filter type	A	B	E
Description	Organic vapours, boiling point >65°C with good warning properties (taste and smell)	Inorganic gases/vapours with good warning properties (taste and smell)	Acid gases with good warning properties (taste and smell)
Examples	Many common solvents, degreasants and thinners	Chlorine	Hydrogen chloride

Note: Not all gases and vapours can be captured by filters. Check at [www.3M.co.uk/selectrespirator](http://www.3M.co.uk/selectrespirator)

## Supplied air devices

3M™ Fresh-air C and V-500 protect welders by feeding breathable quality air from a compressor into a 3M™ Speedglas™ welding shield. It may be used when a supplied air device is preferred to a filtering device or against gases or vapours that cannot be filtered.

### 3M Air Quality Testing Service

**The COSHH Regulations require that the air provided to supplied air devices should be of breathable quality and of sufficient, constant flow and pressure to provide adequate protection.**

The 3M Air Quality Engineers will:

- ▶ test the air at several positions
- ▶ suggest measures and give sound advice if the air does not meet requirements
- ▶ issue a certificate should the air meet requirements for Breathable Quality Air

For more details see page 27

# 3M™ Speedglas™ 9100 Air and 9100FX Air Welding Systems

## Respiratory Protection

The 3M™ Speedglas™ 9100 Air and 9100 FX Air Welding Shields offer a high level of respiratory protection - Class 2/3 and excellent vision in the flip-up mode. They combine with 3 different air delivery units:

- 3M™ Adflo™ Powered Air Turbo
- 3M™ Fresh-Air C (9100 Air) or V-500E Supplied Air Regulators (9100 FX Air)

The exclusive “stackable” configuration of the Adflo turbo unit means that the gas filter can be stacked onto the particle filter for additional protection from specific organic, inorganic and acidic gases and vapours.

## Features and Benefits:

### An Adaptable System

- With the right type of filter, Adflo effectively protects against both particles and gases – all in one system. The filters can be replaced selectively: you don't need to change all filters at the same time

### Filter Indicator

- As soon as you turn on your Adflo powered air respirator a display indicates the status of the particle filter

### Airflow

- For hot humid jobs the user can increase the airflow from 170 l/min to 200 l/min

### Main Systems Part Numbers

- 54 66 05 : 9100FX Air Shield with 9100V ADF and Adflo
- 54 66 15 : 9100FX Air Shield with 9100X ADF and Adflo
- 54 66 25 : 9100FX Air Shield with 9100XX ADF and Adflo
- 56 66 05 : 9100 Air Shield with 9100V ADF and Adflo
- 56 66 15 : 9100 Air Shield with 9100X ADF and Adflo
- 56 66 25 : 9100 Air Shield with 9100XX ADF and Adflo



### 3M™ Speedglas™ 9100FX Air Welding System

Assigned protection factor 40  
Conforms to EN 12941 (TH 3)



### Also available:

**3M™ Speedglas™ 9100 Air Welding System**  
Assigned protection factor 20

### Common Consumables:

- 83 71 00 : Adflo Particle Filter
- 83 60 10 : Adflo Prefilter (pck 5)
- 83 72 42 : Adflo Gas Filter A1B1E1
- 83 71 10 : Odour Filter, Holder & Pad
- 83 71 20 : Replacement Odour Filter Pad
- 83 60 00 : Spark Arrestor
- 83 40 16 : Self-Adjusting Breathing Tube
- 83 40 17 : Heavy Duty Breathing Tube



## 3M™ Speedglas™ 9100 Welding Shield with 3M™ Fresh-air C Compressed Air Regulator

For highly-contaminated welding environments, you may use the 3M Fresh-air C compressed air respiratory system with a 3M™ Speedglas™ Welding Shield. The belt-mounted regulator connects to an approved air hose with a quick release connector system.

### Features and Benefits:

#### Adjustable Air Flow

- The lightweight, belt mounted regulator allows the user to adjust the airflow from 160 to 300 litres per minute, making Fresh-air C ideal for hot and strenuous work
- Air pressure 4-10 bar
- The exclusive airflow pattern evenly distributes filtered air throughout the entire breathing zone of the shield
- The soft, flexible face seal creates a positive pressure environment within the shield, keeping the surrounding pollutants at bay

#### Comfort Belt

- Polypropylene 78 -150cm

#### Air Supply

- The air supply must be air of breathable quality meeting the requirements of EN12021
- The 3M™ Aircare™ filtration systems may be used to remove particles and odours.

#### Main Systems Part Numbers

- 56 88 00 : 3M™ Speedglas™ 9100 Air with Fresh-air C Regulator without ADF\*
- 54 88 00 : 3M™ Speedglas™ 9100FX Air with V-500E Regulator without ADF\*

\* Auto-Darkening Filter



#### 3M™ Speedglas™ 9100 Air System

Conforms to EN 14594 Class 2B  
Assigned protection factor 20

#### 3M™ Speedglas™ 9100FX Air System

Conforms to EN 14594 Class 3B  
Assigned protection factor 40



#### Common Consumables:

- 80 60 00 : Comfort Belt
- 85 30 64 : Air Hose
- 53 41 00 : Face Seal
- 83 40 16 : Self-Adjusting Breathing Tube
- 83 40 17 : Heavy Duty Breathing Tube
- 52 60 00 : Speedglas Outer Protection Plate standard (pck 5)
- 16 80 15 : Speedglas 9100 Sweatband (pck 3)



# 3M™ Speedglas™ 9100 MP Welding & Safety Helmet



Until now, a welder's options for head and respiratory protection have been limited. Introducing the 3M™ Speedglas™ 9100 MP (Multi-Protection) Welding & Safety Helmet: uncompromising and comfortable, all-in-one, welding protection for highly demanding environments.

## Features and Benefits:

- 100% compatible with all of the latest 3M™ Speedglas™ 9100 Series Auto-Darkening Filters, including the top-of-the-line 9100XX Filter.

- A big (17x10 cm), curved, protective visor with excellent views up, down and peripherally. Meets EN 166:B for high speed particle protection making it suitable for grinding.



- Two proprietary shade 5 passive SideWindows add peripheral welding vision.

- The top shell is made from heat resistance polycarbonate and meets the latest EN 379 standard for industrial safety helmets. An optional, high-visibility, aluminum fabric reflects hot sunlight and welding heat.



- Designed to take one of our optional 3M™ Peltor™ Earmuffs: low-profile hearing protection with liquid/foam ear cushions and high-visibility orange housings.

Approved with 3M™ Adflo™ Powered Air Respirator and 3M™ Versaflo™ V-500E Supplied Air Regulator

## Main Systems Part Numbers

- 572800: 9100 MP Welding & Safety Helmet without Welding Filter
- 576600: 9100 MP Welding & Safety Helmet and Adflo without Welding Filter
- 576605: 9100 MP Welding & Safety Helmet with 9100V Welding Filter and Adflo
- 576615: 9100 MP Welding & Safety Helmet with 9100X Welding Filter and Adflo
- 576625: 9100 MP Welding & Safety Helmet with 9100XX Welding Filter and Adflo
- 578800: 9100 MP Welding & Safety Helmet and V-500E without Welding Filter
- 578805: 9100 MP Welding & Safety Helmet with 9100V Welding Filter and V-500E
- 578815: 9100 MP Welding & Safety Helmet with 9100X Welding Filter and V-500E
- 578815: 9100 MP Welding & Safety Helmet with 9100XX Welding Filter and V-500E



# Other 3M™ Headtops approved for use with Adflo™ Powered Air Respirator & V-500E Supplied Air Regulator

## 3M™ Versaflo™ M-Series Headtops

The M-107 and M-307 feature flame resistant face seals and offer wearers high comfort, high protection, easy maintenance and directional air flow. The M-Series Headtops can also be connected to optional earmuffs (see below) for fully integrated protection of Respiratory, Eye, Head and Hearing.

### Features and Benefits:

#### M-307 Helmet

**Directional Air Flow**

**High Protection**

- APF of 40 (Not M-107)

**Easy Maintenance**

- Readily available spares and accessories

**Flame Resistant Face Seal**

**Integrated Protection**

- Respiratory, eye, face, head (not M-107) and hearing (optional)

M-107 Visor

#### 3M™ HT-639 Welding Headtop

The 3M™ HT-639 Welding Headtop can be used with the Adflo™ Turbo Unit when connected with the Noise Reducing Air Hose (Part no. 834008). This headtop provides an economical welding option for use with the Adflo™ Powered Air Respirator, featuring flip-up 90 x 110mm shaded lens holder. The HT-639 can also be converted to an Auto Darkening Welding Shield when used in conjunction with the Speedglas™ 100V Auto-Darkening Filter, Part no. 750020.

### Features and Benefits:

**Integrated Protection**

- Respiratory, eye and face

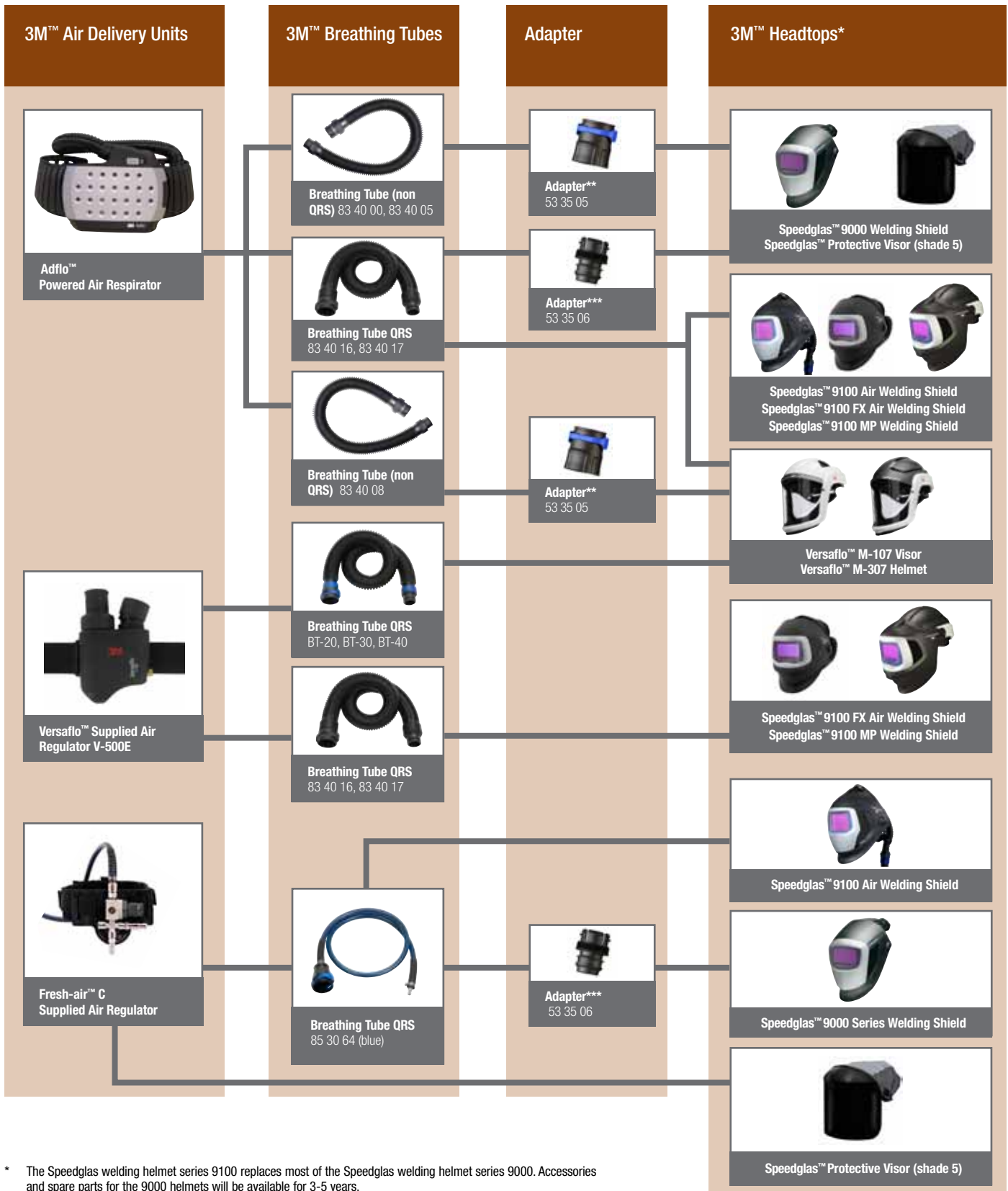
**Welding Applications**

- Flip up 90 x 110mm shaded lens holder. Can be used with the Speedglas™ 100V ADF

# Compatibility of 3M™ Air Delivery Units and Headtops

The new welding helmets and faceshields from 3M feature the QRS type of breathing tube (Quick Release Swivel), which enables one-handed connection and release. Old type of breathing tubes (non QRS) can be used by adding the helmet breathing tube adapter (part no 53 35 05).

The new type of QRS breathing tubes are also approved for 3M™ Speedglas™ Welding Helmet Series 9000 and 3M™ Speedglas™ Protective Visors by adding a specific helmet breathing tube adapter (part no 53 35 06).



\* The Speedglas welding helmet series 9100 replaces most of the Speedglas welding helmet series 9000. Accessories and spare parts for the 9000 helmets will be available for 3-5 years.

\*\* The protection class of Speedglas welding helmet 9100 FX Air is reduced to TH2 when the adapter (53 35 05) is used.

\*\*\* When you buy a new complete respirator or regulator with the new QRS breathing tube, it includes the adapter 53 05 06, needed for connecting the Speedglas welding helmet series 9000 and Speedglas visors to the new type of breathing tube.

# 3M™ Speedglas™ 9100 Air Welding Helmet

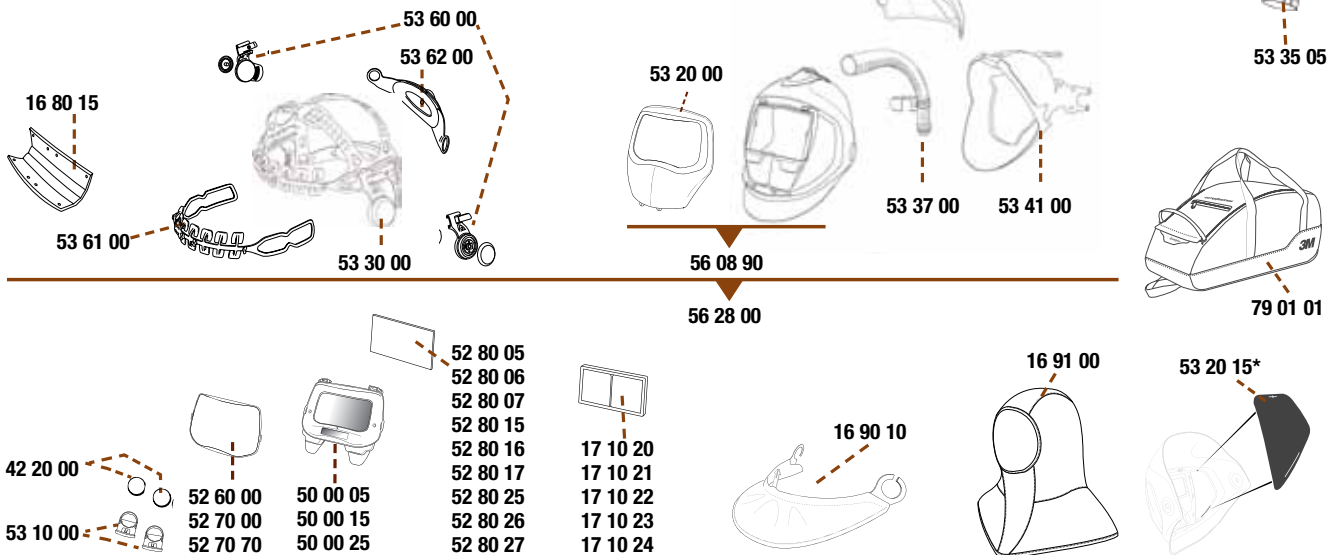


Part No.	Description
56 66 00	Speedglas welding helmet 9100 Air without welding filter, with Adflo powered air respirator.
56 66 05	Speedglas welding helmet 9100 Air with 9100V filter and Adflo powered air respirator.
56 66 06*	Items as 56 66 05, with carry bag.
56 66 15	Speedglas welding helmet 9100 Air with 9100X filter, with Adflo powered air respirator.
56 66 16*	Items as 56 66 15, with carry bag.
56 66 25	Speedglas welding helmet 9100 Air with 9100XX filter, with Adflo powered air respirator.

Part No.	Description
56 66 26	Items as 56 66 25, with carry bag.
56 88 00	Speedglas welding helmet 9100 Air without welding filter, with Fresh-air C supplied air regulator.
56 88 05	Speedglas welding helmet 9100 Air with 9100V filter, with Fresh-air C supplied air regulator.
56 88 15	Speedglas welding helmet 9100 Air with 9100X filter, with Fresh-air C supplied air regulator.
56 88 25	Speedglas welding helmet 9100 Air with 9100XX filter, with Fresh-air C supplied air regulator.

Part No.	Description
56 90 05*	Upgrade kit for Adflo respirator: welding helmet with 9100V filter, breathing tube (834016) and carry bag.
56 90 15*	Upgrade kit for Adflo respirator: welding helmet with 9100X filter, breathing tube (834016) and carry bag.
56 90 25*	Upgrade kit for Adflo respirator: welding helmet with 9100XX filter, breathing tube (834016) and carry bag.

\* With bag (79 01 01)



## Accessories and Spare Parts

Part No.	Description
16 80 15	Comfort sweatband, pkg of 3.
16 90 05	Head protection, black.
16 90 10	Neck protection, black.
16 91 00	Hood, black/grey.
17 10 20	Magnifying lens 1.0.
17 10 21	Magnifying lens 1.5.
17 10 22	Magnifying lens 2.0.
17 10 23	Magnifying lens 2.5.
17 10 24	Magnifying lens 3.0.
42 20 00	Battery, pkg of 2.
50 00 05	Speedglas welding filter 9100V.
50 00 15	Speedglas welding filter 9100X.
50 00 25	Speedglas welding filter 9100XX.
52 60 00	Outer protection plate, standard, pkg of 10.
52 70 00	Outer protection plate, extra scratch resistant, pkg of 10.
52 70 70	Outer protection plate, heat resistant pkg of 10.

Part No.	Description
52 80 05	Inner cover plate for 9100V filter, pkg of 5. Plate marking 117x50.
52 80 06	Inner cover plate, +1 shade for 9100V filters, pkg of 5.
52 80 07	Inner cover plate, +2 shade for 9100V filters, pkg of 5.
52 80 15	Inner cover plate for 9100X filter, pkg of 5. Plate marking 117x61.
52 80 16	Inner cover plate, +1 shade for 9100X filter, pkg of 5.
52 80 17	Inner cover plate, +2 shade for 9100X filter, pkg of 5.
52 80 25	Inner cover plate for 9100XX filter, pkg of 5. Plate marking 117x77.
52 80 26	Inner cover plate, +1 shade for 9100XX filter, pkg of 5.
52 80 27	Inner cover plate, +2 shade for 9100XX filter, pkg of 5.

Part No.	Description
53 10 00	Battery holder, pkg of 2.
53 20 00	Heat-reflecting silver front.
53 20 15*	SideWindows cover plate, 2 pairs.
53 30 00	Speedglas headband 9100 with assembly parts.
53 35 05	Welding helmet adapter when using old type of breathing tube (non-QRS).
53 37 00	Air duct.
53 41 00	Face seal.
53 60 00	Pivot mechanism, left and right.
53 61 00	Headband front part.
53 62 00	Headband back part.
56 08 90*	Speedglas welding helmet 9100 Air without headband, without air duct, without face seal, without filter.
56 28 00	Speedglas welding helmet 9100 Air, without welding filter.
79 01 01	Product carry bag

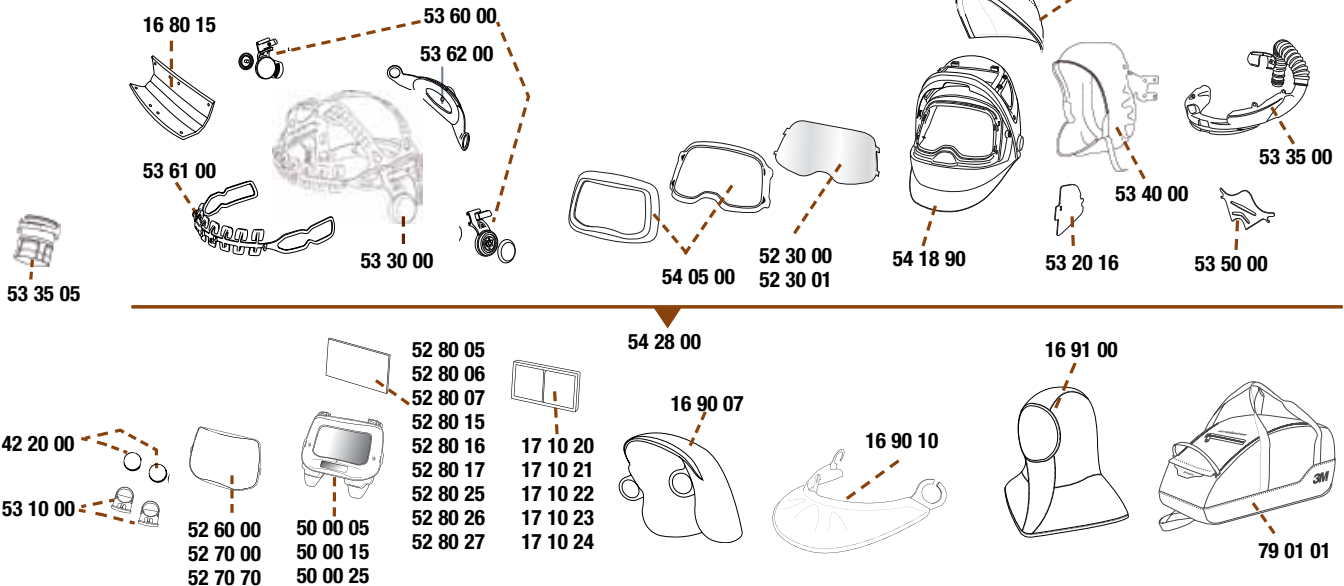
\* Please use Part No 56 08 90 when non SideWindows are required.

# 3M™ Speedglas™ 9100 Fx Air Welding Helmet



Part No.	Description	Part No.	Description	Part No.	Description
54 66 00	Speedglas welding helmet 9100 FX Air, without welding filter, with Adflo powered air respirator.	54 88 00	Speedglas welding helmet 9100 FX Air, without welding filter, with Versaflo supplied air regulator V-500E.	54 90 05*	Upgrade kit: welding helmet with 9100V filter, breathing tube (834016) and carry bag.
54 66 05*	Speedglas welding helmet 9100 FX Air with 9100V filter, with Adflo powered air respirator.	54 88 05	Speedglas welding helmet 9100 FX Air with 9100V filter, with Versaflo supplied air regulator V-500E.	54 90 15*	Upgrade kit: welding helmet with 9100X filter, breathing tube (834016) and carry bag.
54 66 15*	Speedglas welding helmet 9100 FX Air with 9100X filter, with Adflo powered air respirator.	54 88 15	Speedglas welding helmet 9100 FX Air with 9100X filter, with Versaflo supplied air regulator V-500E.	54 90 25*	Upgrade kit: welding helmet with 9100XX filter, breathing tube (834016) and carry bag.
54 66 25*	Speedglas welding helmet 9100 FX Air with 9100XX filter, with Adflo powered air respirator.	54 88 25	Speedglas welding helmet 9100 FX Air with 9100XX filter, with Versaflo supplied air regulator V-500E.		

\* With bag (79 01 01)



## Accessories and Spare Parts

Part No.	Description	Part No.	Description	Part No.	Description
16 80 15	Comfort sweatband, pkg of 3.	52 70 70	Outer protection plate, heat resistant, pkg of 10.	53 20 16	SideWindows cover plate, 2 pairs.
16 90 06	Head protection, (small).	52 80 05	Inner cover plate for 9100V filter, pkg of 5. Plate marking 117x50.	53 30 00	Speedglas headband 9100, with assembly parts.
16 90 07	Head protection, (large).	52 80 06	Inner cover plate, +1 shade for 9100V filters, pkg of 5.	53 35 00	Air duct.
16 90 10	Neck protection, black.	52 80 07	Inner cover plate, +2 shade for 9100V filters, pkg of 5.	53 35 05	Adapter for non-QRS breathing tubes when using Speedglas welding helmet series 9100.
16 91 00	Hood, black/grey.	52 80 15	Inner cover plate for 9100X filter, pkg of 5. Plate marking 117x61.	53 40 00	Face seal.
17 10 20	Magnifying lens 1.0.	52 80 16	Inner cover plate, +1 shade for 9100X filter, pkg of 5.	53 50 00	Air deflector.
17 10 21	Magnifying lens 1.5.	52 80 17	Inner cover plate, +2 shade for 9100X filter, pkg of 5.	53 60 00	Pivot mechanism, left and right.
17 10 22	Magnifying lens 2.0.	52 80 25	Inner cover plate for 9100XX filter, pkg of 5. Plate marking 117x77.	53 61 00	Headband, front part.
17 10 23	Magnifying lens 2.5.	52 80 26	Inner cover plate, +1 shade for 9100XX filter, pkg of 5.	53 62 00	Headband, back part.
17 10 24	Magnifying lens 3.0.	52 80 27	Inner cover plate, +2 shade for 9100XX filter, pkg of 5.	54 05 00	Front cover kit.
42 20 00	Battery, pkg of 2.	53 10 00	Battery holder, pkg of 2.	54 18 90	Speedglas welding helmet 9100 FX Air, without filter, without face seal, without air duct, without headband.
50 00 05	Speedglas welding filter 9100V.			54 28 00	Speedglas welding helmet 9100 FX Air, without welding filter, with headband.
50 00 15	Speedglas welding filter 9100X.			79 01 01	Product carry bag
50 00 25	Speedglas welding filter 9100XX.				
52 30 00	Visor plate, standard, pkg of 5.				
52 30 01	Visor plate, anti-fog, pkg of 5.				
52 60 00	Outer protection plate, standard, pkg of 10.				
52 70 00	Outer protection plate, extra scratch resistant, pkg of 10.				

# 3M™ Speedglas™ 9100 MP Welding & Safety Helmet

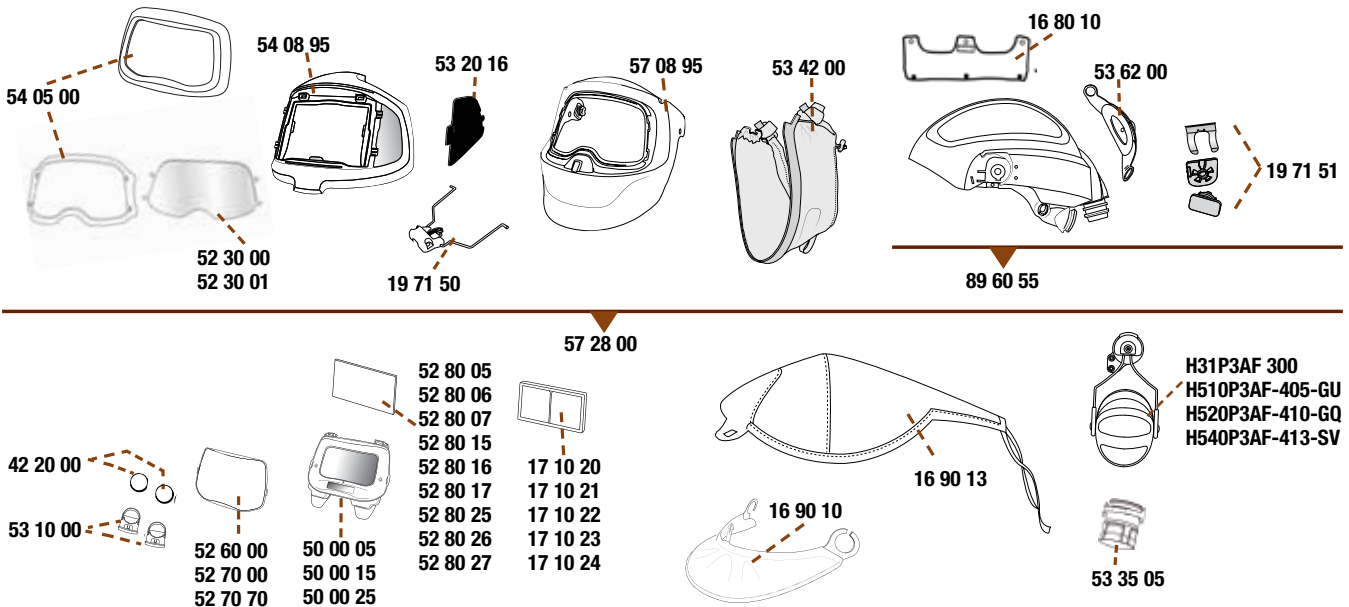


Part No.	Description
57 66 00*	Speedglas welding helmet 9100 MP without welding filter, with Adflo powered air respirator.
57 66 05*	Speedglas welding helmet 9100 MP with 9100V filter, with Adflo powered air respirator.
57 66 15*	Speedglas welding helmet 9100 MP with 9100X filter, with Adflo powered air respirator.
57 66 25*	Speedglas welding helmet 9100 MP with 9100XX filter, with Adflo powered air respirator.

Part No.	Description
57 88 00*	Speedglas welding helmet 9100 MP without welding filter, with Versaflor supplied air regulator V-500E.
57 88 05*	Speedglas welding helmet 9100 MP with 9100V filter, with Versaflor supplied air regulator V-500E.
57 88 15*	Speedglas welding helmet 9100 MP with 9100X filter, with Versaflor supplied air regulator V-500E.
57 88 25*	Speedglas welding helmet 9100 MP with 9100XX filter, with Versaflor supplied air regulator V-500E.

Part No.	Description
57 90 15*	Speedglas welding helmet 9100 MP with 9100X filter and breathing tube
57 90 25*	Speedglas welding helmet 9100 MP with 9100XX filter and breathing tube

\* With bag (79 01 01)



Part No.	Description
16 80 10	Sweatband, fleecy cotton
16 90 10	Neck protection, black.
16 90 13	Safety helmet cover 9100 MP
17 10 20	Magnifying lens 1.0.
17 10 21	Magnifying lens 1.5.
17 10 22	Magnifying lens 2.0.
17 10 23	Magnifying lens 2.5.
17 10 24	Magnifying lens 3.0.
19 71 50	Flip-up mechanism
19 71 51	Pivot kit
42 20 00	Battery, pkg of 2.
50 00 05	Speedglas welding filter 9100V.
50 00 15	Speedglas welding filter 9100X.
50 00 25	Speedglas welding filter 9100XX.
52 30 00	Visor plate, standard, pkg of 5.
52 30 01	Visor plate, anti-fog, pkg of 5.
52 60 00	Outer protection plate, standard, pkg of 10.

Part No.	Description
52 70 00	Outer protection plate, extra scratch resistant, pkg of 10.
52 70 70	Outer protection plate, heat resistant pkg of 10.
52 80 05	Inner cover plate for 9100V filter, pkg of 5. Plate marking 117x50.
52 80 15	Inner cover plate for 9100X filter, pkg of 5. Plate marking 117x61.
52 80 25	Inner cover plate for 9100XX filter, pkg of 5. Plate marking 117x77.
53 10 00	Battery holder, pkg of 2.
53 20 16	SideWindow cover plates.
53 35 05	Welding helmet adapter when using old type of breathing tube (non-QRS).
53 42 00	Face seal
53 62 00	Headband ratchet
54 05 00	Front cover kit.
57 04 95	Outer shield






Part No.	Description
57 08 95	Inner shield
57 28 00	Speedglas welding and safety helmet 9100 MP, without welding filter.
89 60 55	Safety helmet incl pivot kit
M-350	Versaflor head suspension M-300 (not shown above)
H31P3AF300	Peltor hearing protector H31, with helmet attachment
H510P3AF-405-GU	Peltor hearing protector Optime I, with helmet attachment
H520P3AF-410-GQ	Peltor hearing protector Optime II, with helmet attachment
H540P3AF-413-SV	Peltor hearing protector Optime III, with helmet attachment



## 3M™ Personal Protective Equipment

3M offers you a wide range of personal protective equipment including maintenance free particulate respirators, reusable respirators, eyewear and hearing protection for the widest range of industrial applications, with unequalled pedigree, gained in the toughest conditions.

The 3M™ Speedglas™ 9100 Welding Shield and 3M™ Speedglas™ 100 Graphic Shield designs work well with most 3M™ maintenance free respirators that provide protection against hazardous welding particles. The products selected below are those that typically fit well inside the shield. They are well suited for the airborne hazards often found when welding.

Suggested models of respirators		Description	Approval	Part No.
3M™ 4000 Series Respirator		The 3M 4000 Series are a range of ready-to-use, maintenance-free half masks designed for effective and comfortable protection against a combination of many gases, vapours and particulates.	EN 405:2001	4251 - FFA1P2D 4255 - FFA2P3D 4277 - FFABE1P3D 4279 - FFABEK1P3D
3M™ 7500 Series Half Masks		The 3M 7500 Series Half Masks have set a new standard in introducing the highest levels of comfort to half mask respirators. With the 3M™ 2000 Series particle filters, the 7500 Half Mask fits comfortably inside the Speedglas 9100 shield.	EN140:1998	7501 - small 7502 - medium 7503 - large
3M™ 2128 and 2138 Series Filters		The 3M 2128 and 2138 Series Filters offer particulate protection and additional nuisance level protection against organic vapours and acid gases. Both filters fit the 3M 7500 Series Half Masks.	EN143:2000 P2 R EN143:2000 P3 R	2128 2138
3M™ 9925 or 9928 Particle Respirator		Maintenance Free Particulate Respirator for protection against fine dust, oil and water-based mists, metal fume and ozone. The 3M™ Cool Flow™ Valve reduces heat build up to offer comfortable protection, particularly in hot and humid environments.	EN149:2001 FFP2 NR D FFP2 RD	9925 9928
3M™ 9922 Speciality Respirator		The 3M 9922 Particulate Respirator offers relief against fine dusts, oil and water-based mists and nuisance levels of organic vapours from solvents, degreasers and resins. It also provides protection against respiratory hazards during welding such as welding fume and ozone gas.	EN149:2001 FFP2 NR D	9922

Contact the 3M Health and Safety Helpline on  
**0870 60 800 60 (UK) or 1 800 320 500 (Ireland)** for further advice



## 3M™ Hearing Protection




























































Model	Description	Approval	Part Number
3M™ 1310 Cap Banded Earplugs	 The unique flexible band allows for easy manipulation and together with the soft round shape foam ear plugs provides reduced pressure and a comfortable seal.		1310
E-A-R™ Classic™ Ear plugs	 Classic Earplugs are made from a soft energy absorbing polymer foam which provides excellent hearing protection.		PP-01-002 : Pillowpack FP-01-000 : 5 pair PD-01-001 : One Touch Refill PD-01-009 : One Touch Top Up AM-01-000 : Classic Small
3M™ 1100 Earplugs	 The soft foam material provides maximum comfort and low pressure inside the ear.		1100 : Uncorded 1110 : Corded
3M™ E-A-R™ Push-Ins™ Earplugs	 The E-A-R™ Push-Ins™ Earplugs revolutionise hearing protection with more advantages than many other foam earplugs. No roll down is required, a gentle push is all it takes.	EN 352-2	EX-01-021 : Uncorded EX-01-020 : Corded
3M™ E-A-R™ Ultrafit™ Corded Earplugs	 For occasion when the convenience and permanence of a pre-moulded earplug is more suitable for your requirements.	EN 352-2	UF-01-00
3M™ Peltor™ Welding Muff	 The 3M Peltor Welding Earmuff is designed to be worn with 3M™ Speedglas™ welding shields. It provides moderate attenuation from noise arising from welding, cutting or grinding and is slim enough to fit under a welding helmet.	EN 352-3	H505B : Neckband
Peltor™ Optime™ I Earmuff	 Peltor Optime I Earmuff offers versatile protection and is very lightweight providing high wearer comfort. It combines a low profile with generous inner depth which makes it easy to combine with other equipment, allowing the ear to rest comfortably.	EN 352-3	H510B : Neckband H510A : Headband H510F : Folding Headband H510P3 : Helmet Attachment
Peltor™ Optime™ II Earmuff	 Peltor Optime II Earmuff has been developed for demanding noisy environments and muffles even extremely low frequencies to a maximum degree.	EN 352-3	H520B : Neckband H520A : Headband H520F : Folding Headband H520P3 : Helmet Attachment
Peltor™ Optime™ III Earmuff	 Peltor Optime III Earmuff is a high performance hearing protector and has been developed for use in extremely noisy environments.	EN 352-3	H540B : Neckband H540A : Headband H540P3 : Helmet Attachment

## 3M™ Coveralls

3M™ 4530 Protective Coverall		<p>Lightweight and breathable whilst offering protection against hazardous dusts and limited liquid splashes. The material complies with ISO 14116:2008 for limited flamespread index 1 (must be worn over an index 2 or 3 garment).</p> <ul style="list-style-type: none"> <li>• Elasticated hood, ankles and waist</li> <li>• 2 way zip with fully sealable storm flap</li> <li>• 3 panel hood</li> <li>• Knitted cuffs</li> </ul>	 <p>TYPE 5 ISO 13982-1</p> <p>TYPE 6 EN 13034</p> <p>EN 1073-2</p> <p>EN 1149-5</p>
------------------------------	---	--	--



# 3M™ Eyewear

	Model	Description	Approval	Part Number
3M CLASSIC SPECTACLES	3M™ Virtua™ AP Spectacles	Protection never looked so affordable. The new 3M™ Virtua™ AP features a graceful, unisex styling and lightweight comfort to help promote compliance.	EN 166 1.F	<b>Lens Colour</b> <b>Product Code</b>  71512-0000M  71512-0001M
	3M™ 2720 Series Spectacles	Cost-effective protection and comfort. 3M™ 2720 Classic Line Spectacles are lightweight and offer the wearer high levels of comfort together with reliable protection. They are available in 3 lens options.	EN 166:2001 1.FT	<b>Lens Colour</b> <b>Product Code</b>  2720  2721  2722
	3M™ 2820 Series Spectacles	Safety with style. Very lightweight, sleek and modern design offering excellent coverage and field of vision.	EN 166:2001 1.FT	<b>Lens Colour</b> <b>Product Code</b>  2820  2821  2822
	3M™ Tora™ Spectacles	Lenses and temples in combined colours intensify the contemporary smart look. 9D base curved lens offers excellent peripheral vision and perfect lateral side protection (Optical Class 1).	EN 166 1.F and EN 170 1.FT	<b>Lens Colour</b> <b>Product Code</b>  71501-0001CP  71501-0002CP  71501-0003CP
3M COMFORT SPECTACLES	3M™ 2840 Series Spectacles	With a new, unique style the 3M™ 2840 Spectacles have been designed with user comfort and convenience in mind. The temples are fully inclinable and adjustable in length for optimal fit. The soft inner padding offers increased comfort. The 3M™ 2840 Spectacles feature a strong polycarbonate lens with anti-scratch and anti-fog coating (except 3M™ 2844) and integrated browguard.	EN 166 and EN 170 1.FT	<b>Lens Colour</b> <b>Product Code</b>  2840  2841  2842  2844  2845  2846
	3M™ Solus™ Spectacles	From colour-accented temples, to the high profile dual lens look of fashion street wear, Solus brings sophistication and comfort to safety eyewear.	EN 166 and EN 170 1.FT	<b>Lens Colour</b> <b>Code</b> <b>Frame</b>  71505-0001CP   71505-0002CP   71505-0003CP   71505-0004CP   71505-0005CP 
3M PREMIUM SPECTACLES	3M™ Eagle™ Spectacles	The Polycarbonate lens eliminates the UV, reduces IR levels and secures perfect eye comfort by controlling visible light. Can be used in all situations where UV, IR or visible light creates a risk. Available in shade 1,7 (welder's assistant) up to 7,0 (oxy cutting).	EN 166 1.F	<b>Lens Colour</b> <b>Code</b> <b>Frame / Lens</b>  27-3024-03P  PC - 3,0  27-3024-05P  PC - 5,0  27-3024-07P  PC - 7,0
	3M™ Metaliks™ Spectacles	Polished metal frame with a sleek 10-base de-centered twin lens for optimum eye coverage and optimal field of vision.	EN 166 1.F and EN 170 1.F	<b>Lens Colour</b> <b>Code</b> <b>Frame</b>  71460-0001CP   71460-0002CP 
	3M™ Metaliks™ Sport Spectacles	Metal frames with saddle type nose piece. Formable rubber tipped temples for extra comfort and adjustability.	EN 166 1.FT	<b>Lens Colour</b> <b>Code</b> <b>Frame</b>  71461-0001CP   71461-0002CP   71461-0003CP   71461-0004CP 
	3M™ Fuel™ X2 Series Spectacles	An ultra efficient blend of comfort and style offers a refined look and superb features.	EN 166 1.FT	<b>Lens Colour</b> <b>Code</b> <b>Frame</b>  71502-0000M   71502-0001M   71502-0002M 
GOGGLES	3M™ 2890 Goggles	The 3M™ 2890 Safety Goggles feature a modern, slim design and are available with five options using either an acetate or polycarbonate lens with either sealed (3M™ 2890S, 3M™ 2890SA, 3M™ 2895S) or indirect ventilation.	2890 + 2890S: EN166 1.BT 2890A + 2890SA: EN166 1.FT 2895S: EN166 1.B 9 & EN169	<b>Lens Colour</b> <b>Product Code</b> <b>Lens Colour</b> <b>Product Code</b>  2890  28955  2890A  2890S  2890SA
	3M™ Fahrenheit Goggles	Soft PVC crystal frame with a wide support area all around the face to enhance comfort. Specific channel on the side of the frame to accommodate the temple of prescription frames.	EN166 1.BT EN166 1.BT EN166 1.B9	<b>Lens Colour</b> <b>Product Code</b> <b>Headband Ventilation</b>  71360-00001    Nylon    Indirect  71360-00002    Nylon    Indirect  71360-00005    Neoprene    Non-vent



## We do the Overtime - Care and Maintenance

### Why is care and maintenance so important?

To optimise the effective lifetime of your welding protective equipment and avoid additional cost of replacement, regular maintenance is important.

Guidance on the appropriate checks is provided in the instruction booklets with each new system/item. The care and Maintenance Pack Sheets and Posters make this information accessible on a day-to-day basis and are a strong visual reminder.

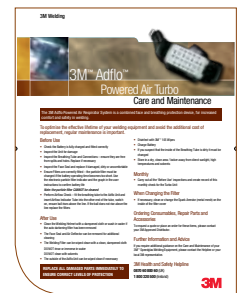
### Packs

The care and maintenance packs provide easy-to-follow guidance explaining the checks and procedures for the components of each 3M system on site. The use of posters and information sheets allows this key information to become easily accessible to everyone involved with maintaining the equipment.



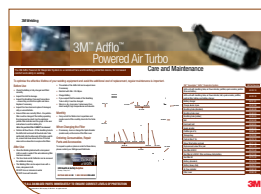
### Information Sheets

The sheets highlight the main 'Before Use' and 'After Use' checks (as required) for each piece of kit. They also provide a breakdown of various consumables, accessories and repair parts with part numbers and pack quantities.



### Posters

The A3 posters highlight the main 'Before Use' and 'After Use' checks required to ensure optimum performance and protection.



### Record Cards

As part of the COSHH regulations relating to respiratory protective equipment, records of monthly checks must be kept.



To download the above material, please go to:

**[www.3M.co.uk/maintenancepacks](http://www.3M.co.uk/maintenancepacks)**

To request full packs please call 3M Safety Services on

**0845 601 3457**

## 3M Fit Testing

Do you have workers who wear tight fitting respirators, such as Disposable Respirators, Half Masks or Full Face Masks (including those fitted to a powered respirator)?

If so, you are required to fit test them\*



Product Type	Required Fit Test Method
Disposable Respirator	Qualitative or Quantitative
Half Mask (including those fitted to a powered or supplied air device)	Qualitative or Quantitative
Full Face Mask (including those fitted to a powered or supplied air device)	Quantitative Only

3M can offer both Qualitative and Quantitative Fit Testing.

The 3M Fit Testing Service is provided by Fit2Fit accredited personnel on the employers site at a day/time suitable to the employer. The Fit2Fit accreditation scheme is a BSIF initiative supported by the HSE which ensures fit testers can conduct a fit test to the level of competence required in the HSE guidance note 282/28. Staff carrying out the testing are competent at fit testing and have a professional and friendly manner which is important when coaching and reassuring employees during their fit test.



We will fit test employees on the respirator that has been issued. We also carry sufficient samples of 3M's full range of respirators, so should any employee require a different model or design, samples are made available if required. 3M can offer a fit testing service lasting either half a day or a full day(s), depending on the number of employees who require a fit test.

\*as per COSHH Regulations 2002

## 3M Air Quality Testing Service

Do you use airfed respirators?

The COSHH regulations require that the air provided to this type of equipment should be of breathable quality and of sufficient, constant flow and pressure to provide adequate protection\*

The 3M Air Quality Testing Service is carried out by engineers who will:

- ✓ Carry out a briefing where required, on the test procedure
- ✓ Test the air at several positions, as per your requirements
- ✓ Suggest measures and give sound advice, if the air does not meet the requirements, to enable the employer to make further assessments
- ✓ Issue a certificate should the air meet the requirements of Breathable Quality Air
- ✓ Issue a written set of test results
- ✓ Send an automatic notification for re-test as per your requirements



For more information about our products and services visit our website at [www.3M.co.uk/ohes](http://www.3M.co.uk/ohes)

To receive a quote please call our 3M Safety Services Coordinator on 0845 601 3457, or email us on [safetyservices.uk@mmm.com](mailto:safetyservices.uk@mmm.com)

\*as per COSHH Regulations 2002 (European Standard for Breathable Quality air is EN12021).



**3M Welding**  
**3M United Kingdom plc**  
3M Centre  
Cain Road, Bracknell  
Berkshire RG12 8HT  
Tel: 0161 237 6104  
[www.3M.co.uk/speedglas](http://www.3M.co.uk/speedglas)

**3M Welding**  
**3M Ireland Limited**  
The Iveagh Building  
The Park  
Carrickmines  
Dublin 18  
Tel: 1800 320 500

15357  
Please recycle. Printed in the United Kingdom.  
© 3M 2012. All rights reserved.  
CHWELDINGDIRECTORY.lss 3