



3M Science.
Applied to Life.™

Fit to Protect

3M™ Particulate Respirators 8825+ and 8835+

3M has a long history of innovation – over 40 years in respiratory protection alone, and a passion for applying science to the development of safe, comfortable respirators. Now 3M has innovated further, applying the science of fit to build upon existing product benefits and taking the new 3M™ Disposable Respirators 8825+ and 8835+ to new heights.

For many years 3M Particulate Respirators 8825 and 8835 have been flagship products, introduced to the market with a broad design and large surface area to offer greater breathing comfort.

Bridging the gap between disposable and reusable particulate respirators, the 3M Particulate Respirator 8825+/8835+ series has been engineered to focus on fit performance without compromising wearer comfort.



8835+ Fit
94%

of faces in a 2016
fit test study¹

¹ Results of this study do not replace the need for workers to be individually fit tested. Study was conducted upon 262 respirator wearers at multiple job sites in the UK. Based on the results from this study, the 3M™ Particulate Respirator 8835+ had a fit test pass rate of 94.66%. See www.3m.com/FitToProtect for complete details. Actual results may vary at any workplace.

The science of fit

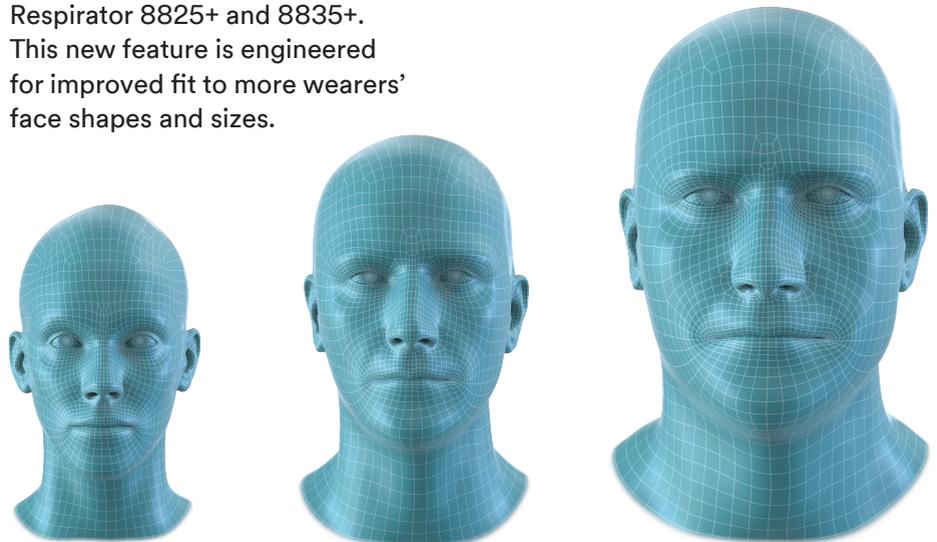
In a busy world, “fit” has become part of the fabric of our lives. We strap infants into car seats. We adjust and buckle into bicycle helmets. We protect ourselves, and others, in many different ways. But, there’s so much more to fit than meets the eye, especially when it comes to respiratory protection. At 3M, the Science of Fit is the technology and research behind making protective equipment fit comfortably.

Fortunately, the people behind Science of Fit aren’t solely scientists – they are parents, siblings, husbands and wives. They live and breathe the importance of protection. They understand that respirators have to fit to do their job properly. And they know the respirator has to fit for the wearer to be adequately protected.

Our state-of-the-art global labs also pave the way for important discoveries and advancements like our new flexible face seal on the 3M™ Particulate Respirator 8825+ and 8835+. This new feature is engineered for improved fit to more wearers’ face shapes and sizes.

Engineered for improved fit

Our new flexible face seal has been specifically designed to fit a wider range of face shapes and sizes.



The rigour behind the respirator

The 3M approach speaks for itself

Design Approach

At 3M, fit is incorporated into the entire product development process.

Onsite Testing

Fit testing at customer locations provides added assurance that our respirators will fit in real-world work settings.

Lab Testing

Every year, 3M tests thousands of people in our state-of-the-art fit-test labs around the world. This new feature is engineered for improved fit to more wearers’ face shapes and sizes.

Education & Training

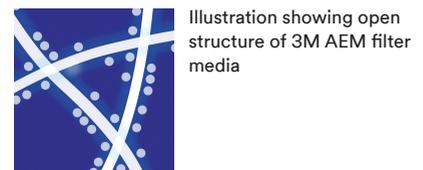
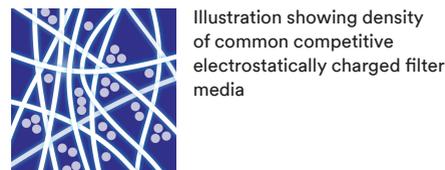
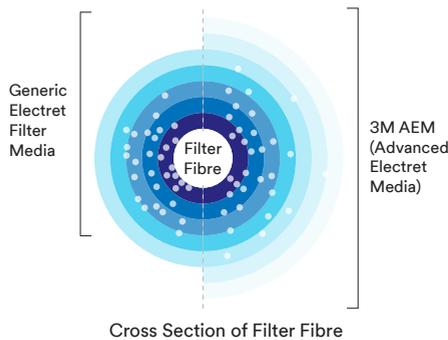
If a respirator is not worn correctly, or doesn’t fit, it loses effectiveness. That’s why we educate and train users on how to wear respirators properly and provide the tools to understand and execute proper fit.

When breathing is easy, so is everything else

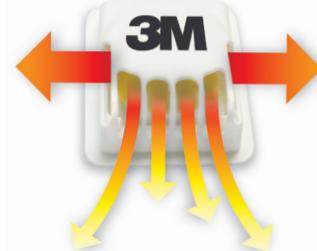
Workers want to achieve a good, consistent fit, while being comfortable; the 8835+ comes with a new construction of filter media, delivering a lower breathing resistance throughout the use of the product.

3M's Advanced Electret Media (AEM) is uniquely endowed with a charge to attract particles from a greater field of capture.

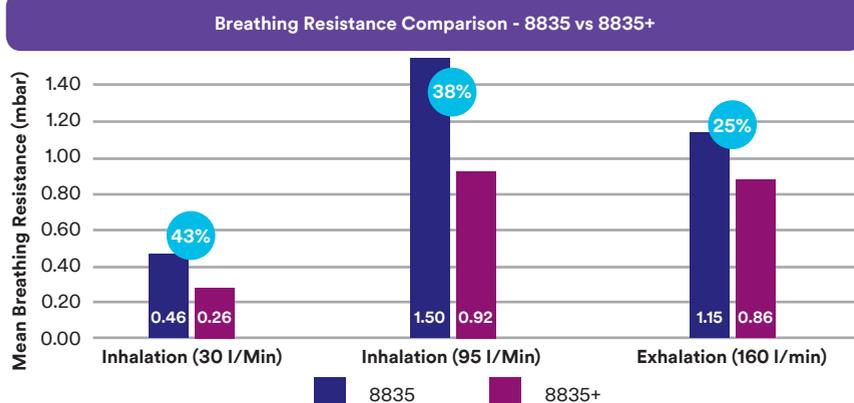
The strong AEM charge means less fibres are needed to efficiently capture the particles. This enables the filter media to have a more open structure to allow easier breathing.



Adding the 3M™ Cool Flow™ Valve helps reduce breathing resistance further, giving warm, exhaled air more space to escape.



Mean breathing resistance* of 8835+ vs its predecessor 8835 (as per requirements of EN 149:2001+A1:2009 Standard)



*Mean performance from independent external testing to EN 149:2001+A1:2009. 12 samples of each model tested. Individual results may vary.

Up to
43%
reduction in
breathing
resistance

The science of compatibility

Having a respirator that doesn't compromise the critical fit of other personal protective equipment is essential – for instance, wearing a well-fitted respirator and a pair of safety eyewear, where neither inhibits the other from doing its job effectively.

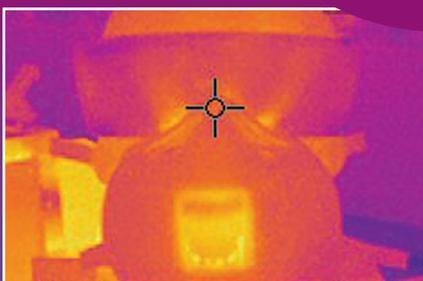


The 8825+/8835+ face seal doesn't just help to improve fit; the profile of the mask is designed to move air going through the filter media away from the face to limit the escape of exhaled air upwards, thereby reducing the fogging of eyewear.

The shaping of the faceseal, around the nose and across the cheekbones also gives room for 3M safety spectacles to sit, enhancing the combined compatibility.

Designed to help reduce eyewear fogging

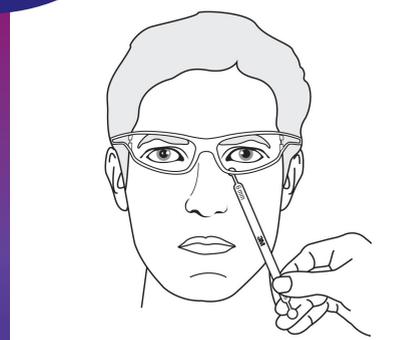
Designed to be compatible with 3M Safety Eyewear



8835



8835+



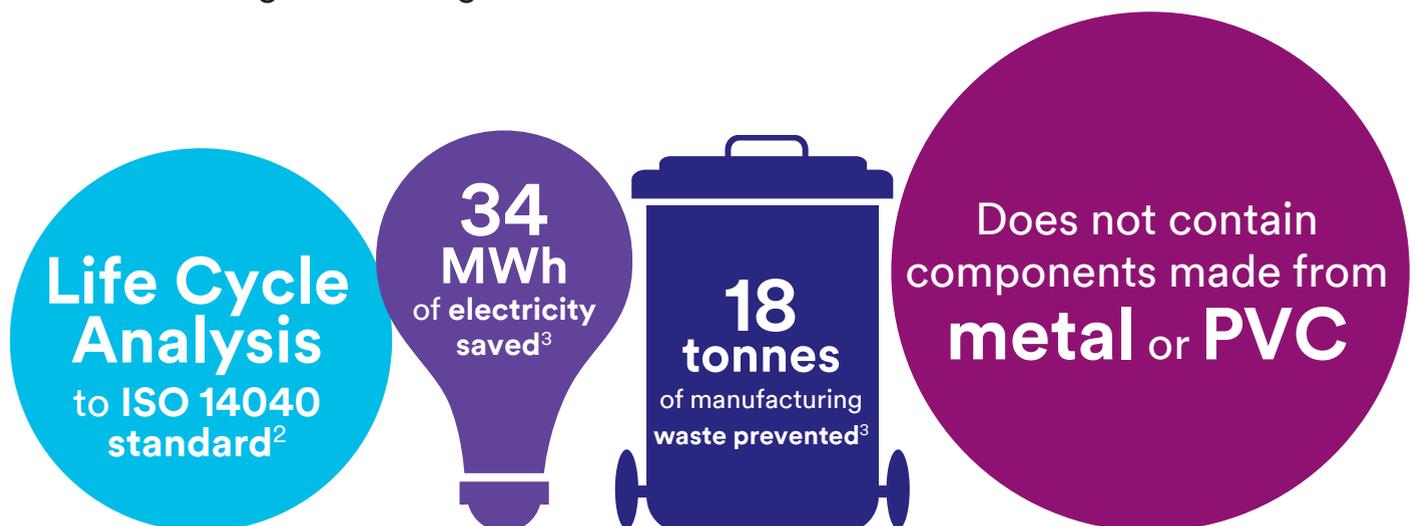
3M is able to use thermal imaging cameras to detect and compare the levels of fogging generated while wearing different respirators.

3M has a unique Safety Eyewear fit test that helps us to assess the fit compatibility of respirators and eyewear.

Environmental impact

A sustainability goal of ‘PVC out’ is now a priority for many markets and companies. The new family of 3M 8825+ and 8835+ respirators do not contain components made from metal or PVC and will allow our customers to continue to help make worker safety and comfort the priority but with proven lower environmental impact.

This helps our customers achieve company sustainability obligations as well as compliance for future changes in EU regulation on PVC.



² 3M conducts Life Cycle Analysis (LCA) per the ISO 14040 standard and is available on request.

³ 18 tonnes of manufacturing waste prevented and 34 MWh of electricity saved based on total annual production.

3M™ Particulate Respirators 8825+ and 8835+ overview

EN 149:2001+A1:2009
approved

- FFP2 (8825+) and FFP3
(8835+) protection level options

Proprietary Soft
Inner Face Seal



3M™ Advanced Electret
Filter Media (AEM)

Adjustable Braided
Headbands



3M™ Cool Flow™ Valve





Personal Safety Division

3M United Kingdom PLC
3M Centre, Cain Road
Bracknell, RG12 8HT
Tel: 0870 60 800 60
www.3M.co.uk/8835+

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