



99.7% ACHIEVE A POSITIVE QUANTITATIVE FACE FIT TEST RESULT

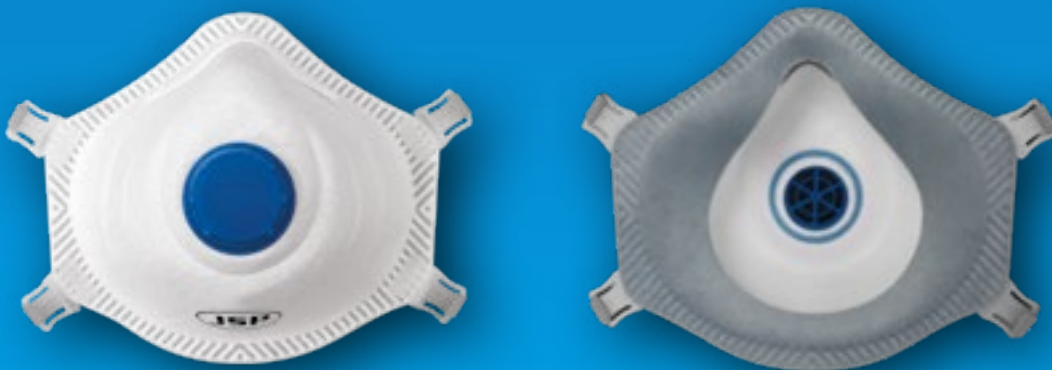


**Study shows 99.7% wearing a JSP M632
moulded disposable mask achieve a positive
quantitative face fit test result.**

THE MASK

The M632 is an FFP3 moulded disposable respirator with a UK assigned protection factor (APF) of 20. The mask is manufactured with a specialist face seal designed to accommodate most European Male and Female facial structures with minimal adjustment after donning.

This FFP3 mask is ideal for the industrial market and provides protection against particulate dusts, fibres, water-based mist & aerosols, fungal spores, dander, fume and viruses. A one-way exhalation valve is fitted allowing the wearer's breath to be immediately expelled, preventing reverse flow and significantly reducing the build-up of CO₂.





THE STUDY

It is of the utmost importance to select the correct disposable mask for the wearer. The mask should be properly certified, from a reputable supplier, of a good quality and most importantly must fit correctly. But where to begin when selecting the right mask?

To help with selection we have carried out testing on 67 individuals using the TSI PortaCount® machine to determine how well the M632 mask fits users. The results were clear! Analysis shows that 99.7% of wearers will achieve a positive face fit test result wearing the JSP M632 mask. This makes it a great mask to start fitting and using across the workforce.

Here is how the research and results analysis was carried out. Respiratory Manager, Fit2Fit Qualified fit tester and Fit2Fit Approved Course tutor, Daren Metcalf conducted a study to assess the face fit provided by the JSP M632 disposable mask.

To assess the fit, we needed to present data from a wide range of test subjects to provide a realistic data model and representation of a workforce. We had 67 volunteers for face fit testing with the M632 mask. Each participant was tested following a quantitative fit test method using the TSI PortaCount® device. The results from each test were analysed to provide the overall result for the study.



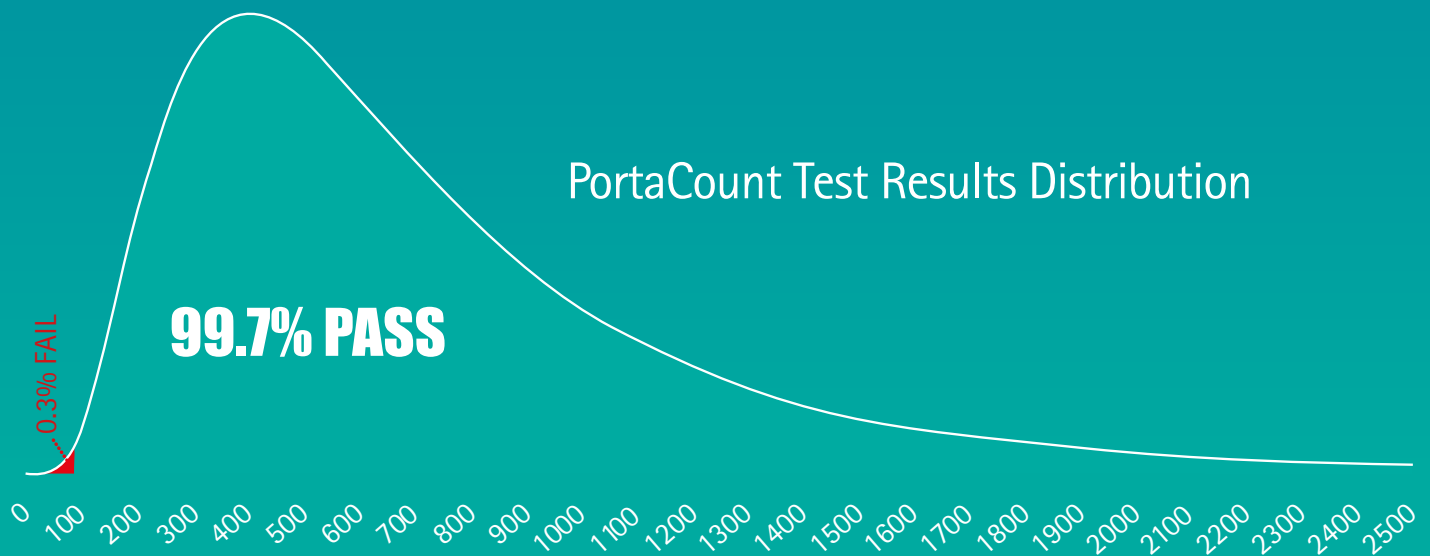
What is face fit testing and how is it carried out? Read this blog post to find out more:





THE RESULTS

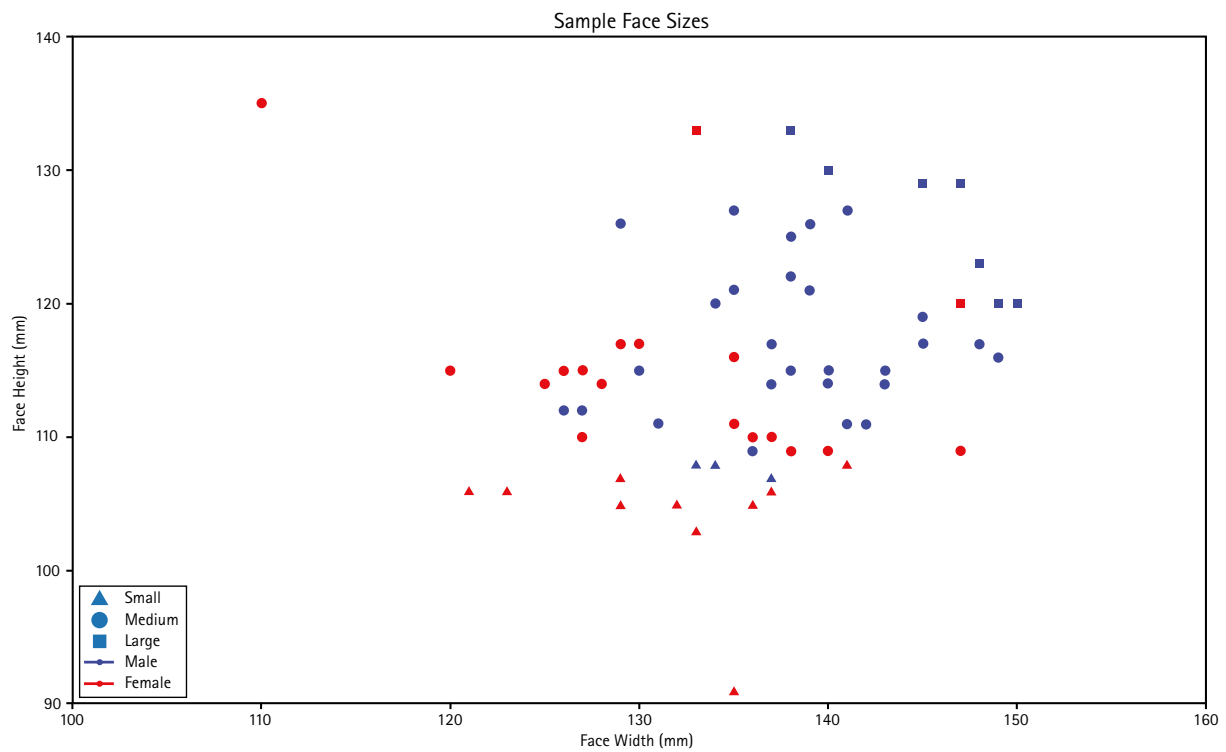
The graphs in this section demonstrate the fit test results and sample face sizes from the study, along with an explanation of the data analysis used to process the results.



This graph shows the population modelled as a lognormal distribution, from the testing of 67 people. The distribution is lognormal because the data is skewed to the right tail. The x axis represents the TSI PortaCount® Face Fit test scores, and the y axis represents the probability of achieving that exact score. The Cumulative distribution function is taken from the graph, giving a 99.7% probability of success on the TSI PortaCount® test. If the cumulative distribution function is taken with the entire graph as a parameter, a value of 100% will be returned.

The table below shows the mean and median average score from the TSI PortaCount® test for the individuals tested.

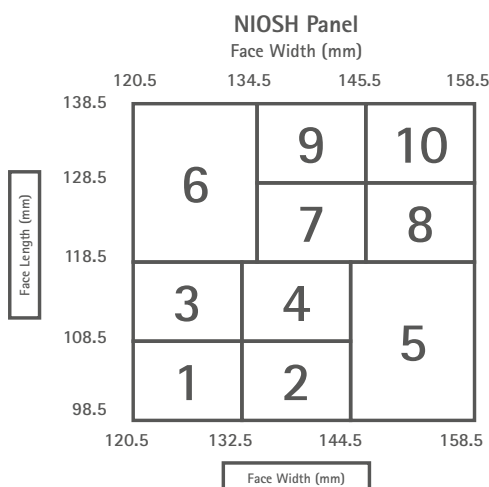
Highest score	2,016
Mean average	730
Median average	605
Pass score	100



This graph shows the dimensions of faces in the sample group. The Bizygomatic breadth of the face is represented by the x axis and the Menton-sellion length of the face is represented by the y axis.

	Female	Male	Total
Small	10	3	13
Medium	16	27	43
Large	2	9	11
Total	28	39	67

The NIOSH Bivariate Panel (Image below) indicates the demographic of face sizes. Faces in boxes 1 and 2 are small; faces in boxes 8, 9 and 10 are large, and faces in boxes 3, 4, 5, 6, and 7 are medium.



Description	Definition	Diagram
Bizygomatic Breadth	Maximum horizontal breadth of the face as measured with a spreading calliper between the zygomatic arches	
Menton-Sellion Length	Distance as measured with a sliding calliper in the midsagittal plane between the menton landmark and the sellion landmark	



Method and Calliper used to measure facial size

This study demonstrates the great fit that can be achieved on the majority of clean-shaven individuals within a workforce. For those that fall outside of this demographic, with facial sizes smaller than those tested, JSP recommends the small sized Force®8 Half Mask. For individuals with facial hair powered air purifying respirators should be considered, such as the JSP Jetstream® or PowerCap® Infinity®.

M632

BENEFITS OF CHOOSING M632

So why are these results important? By selecting a mask that fits a wide variety of individuals you can decrease costs, minimise inventory and manage sites more efficiently by providing a single mask type for all RPE wearers.

Benefits of adopting M632 FFP3 disposable masks:

- ✓ Easier to manage workforce face fit testing and increased product familiarity.
- ✓ Reduced inventory management by providing a single product for more users.
- ✓ Reduced cost with greater buying power against a single product for larger workforces.
- ✓ Great fitting, high quality comfortable masks.
- ✓ Supplied by a member of the BSIF RSSS (Registered Safety Supplier Scheme).



✓ EXHALATION VALVE

Low resistance exhalation valve for easy breathing.



✓ FOAM PADDED NOSE BRIDGE

A mouldable nose bridge and 360° foam area around the inside provide comfort and a firmer fit.



✓ 4-POINT ADJUSTABLE STRAPS

Metal free, 4-point adjustable straps create a firm and adaptable fit.

M632 - FFP3

Moulded disposable respirator: EN 149

BGZ130-000-A00



M632

FFP3 -
99% minimum filtration efficiency

Valved

Qty
10



JSP Ltd, Worsham Mill, Minster Lovell, Oxford, OX29 0TA, England
Tel: +44 (0)1993 826050 Fax: +44 (0)1993 824411
sales@jspsafety.com export@jspsafety.com www.jspsafety.com
Issued: 04/24 Copyright © 2024. JSP Ltd. All Rights Reserved



www.jspsafety.com sales@jspsafety.com UK tel: +44 (0)1993 826050