

REPSS, Inc.

Instrumentation Specialists

AccuFIT

User Guide

Welcome to AccuFIT! Let's get started...

Setup

- Turn on humidifier to generate particles
 - **IMPORTANT:** keep humidifier 6-10 feet away from unit
 - Recommended particle range 5,000-10,000 for best possible fit factor (AccuFIT PRO with N95 classifier: 200-400)
- Fill alcohol capsule to line
- Insert **alcohol cartridge** into capsule, turn until it locks in place
 - Soak for 5-10 minutes (one soak = approximately 4-5 hours of fit testing)
- Attach blue/clear twin tubing (even ends) to corresponding blue/silver orifices on unit
- Insert zero check filter into uneven end of clear tube
- Remove **alcohol cartridge** from capsule (shake excess alcohol into capsule)
- Remove **storage cap** from AccuFIT unit, insert **alcohol cartridge**, turn until it locks in place
 - Put **storage cap** on capsule to prevent alcohol evaporation

Validation Check

(perform once per day, before fit testing)

- Turn on AccuFIT unit (top right corner)
 - Allow screen to load (5 icons should appear)
- Open AccuFIT software on computer
- Click Validation Check > select database (new or existing) > Start and follow prompts
 - Tip: after connecting the zero check filter, wait 5 seconds before clicking OK
- Once validation check passes, begin fit testing

Administration

- Click Administration > People > New
 - Enter last name, first name, employee ID, company
 - Click Save, enter the next person, etc.
 - When done click Exit > Exit
- Click Respirators > View list and click New if needed
 - Enter Manufacturer, Model, Type, and Pass Value (100 for N95s and half-face, 500 for full-face)

Avoid These Common Problems

- Incorrect mask size
- Mask design not well-suited to subject
- Subject smoked within 30 minutes of testing
- Ambient particle count is too low (fit factor is a ratio of external to internal particle samples)
- Mask adapter not assembled/positioned correctly
- Hair interfering with mask seal
- Foreign material in exhalation valve
- Alcohol cartridge** not tightly inserted
- O-rings damaged/not sealing
 - 3 O-rings in **alcohol cartridge** should be lubricated annually with Dow Corning grease (included in your kit)
- Starting fit test too soon after putting mask on (ambient particles trapped in mask)
- Tubing not sealed to inlets or mask adapter

Fit Testing

- For N95s: probe respirator in the center (not too low), attach clear tube
 - Tip: only allow the needle to touch the mask once – additional punches may compromise the integrity of the mask material
- For elastomerics: attach adapter and tubing
- Have subject put on respirator
 - Allow 5 minute “comfort and assessment” period
 - Tip: Use the Realtime feature to help subject find the best fit
- Click Fit Test – no need to run another validation check
- Choose Protocol
 - OSHA Fast FFP 2019 – N95s
 - OSHA Fast Full/Half 2019 - elastomerics
- Enter Operator name/initials
- Choose/enter Person, Respirator, and Mask Size
- Click Start
- Follow instructions to complete Fit Test

Tips:

- Don't let subject adjust respirator during test
- Have subject read the Rainbow Passage during the Talking exercise
- During Head Movement exercises, take 2 breaths between each movement
- Note: pass/fail is determined by the overall fit factor
- Choose to save and/or print report
- If you'll be testing for more than 4 hours, use a break to resoak the wick in alcohol

Running low on any of these items? Call us to reorder now!

866.657.3777

- Isopropyl alcohol
- Probes and push nuts
- Twin tubing
- Punch out forms
- Mask adapter kits/tubing
- Respirator wipes
- Fit test cards
- Card printer ink
- Card printer cleaning kit



Respirator Fit Test Card

Name: Max Fitzwell Test Date: 3/17/2021
ID: 12345 Next Test Date: 3/17/2022

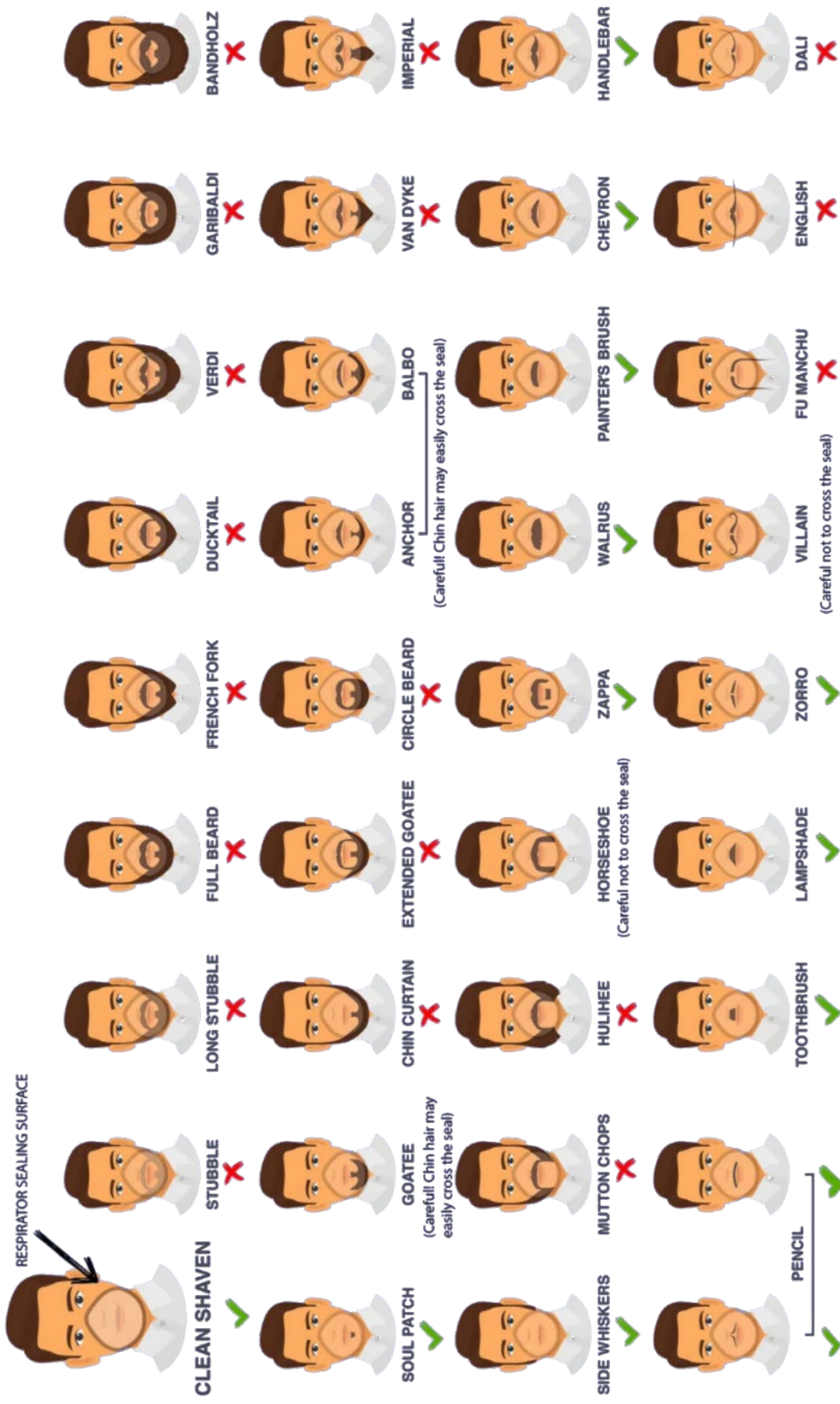
<u>Respirator</u>	<u>Results</u>
Mfg: 3M	Overall FF: 135
Model: 1870+	FF Pass Level: 100
Style: HALF FACE	Pass: Y
Size: ONE SIZE	Operator: FT
Protocol: OSHA Fast FFP 2019	
Fit Test Method: QNFT using AccuFIT	

Read this during “Talking” exercise:

When the sunlight strikes raindrops in the air, they act like a prism and form a rainbow. The rainbow is a division of white light into many beautiful colors. These take the shape of a long round arch, with its path high above, and its two ends apparently beyond the horizon. There is, according to legend, a boiling pot of gold at one end. People look, but no one ever finds it. When a man looks for something beyond his reach, his friends say he is looking for the pot of gold at the end of the rainbow.



Facial Hairstyles and Filtering Facepiece Respirators



"If your respirator has an exhalation valve, some of these styles may interfere with the valve working properly if the facial hair comes in contact with it. This graphic may not include all types of facial hairstyles. For any style, hair should not cross under the respirator sealing surface."

Source: OSHA Respiratory Protection Standard
https://www.osha.gov/pls/oshaweb/owdndisp.show_document?p_table=standards&p_id=12716
 Further Reading: NIOSH Respirator Trusted-Source Webpage
https://www.cdc.gov/miosh/npppl/topical/respirators/dep_part1/respsource3llrest.html



Centers for Disease Control
 and Prevention
 National Institute for Occupational
 Safety and Health



www.repss.com • 866.657.3777 • customerservice@repss.com

AccuPunch Instructions

- Place probe onto piercing needle, push nut into upper handle (concave side out):



- Center respirator over piercing needle:



AccuPunch Instructions

- Place upper handle over respirator (magnets will help guide placement):



- Push down firmly until AccuPunch spring is fully engaged:



Respirator is now probed and ready for fit testing!



**If you have any questions,
please reach out to us!**

866.657.3777

customerservice@repss.com

Thank you for relying on REPSS!