

REPSS, Inc.

Respiratory Fit Testing 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
- 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 (top right corner), connect to computer via USB cord
- Open AccuFIT software on computer
- Click Validation Check > select database (new or existing) > Start and follow prompts
 - Recommended particle range: 5,000-10,000 (or for AccuFIT PRO with N95 classifier: 200-400)
 - Tip: after connecting the zero check filter, wait 5 seconds before clicking OK
- Once validation check passes, begin fit testing

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
 - 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

Administration

- Click Administration > People > New
 - Enter last name, first name, employee ID, company
 - Click Save, enter the next person, etc. > 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

Running low on any of these items?

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- Reagent grade 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
- Replacement humidifier

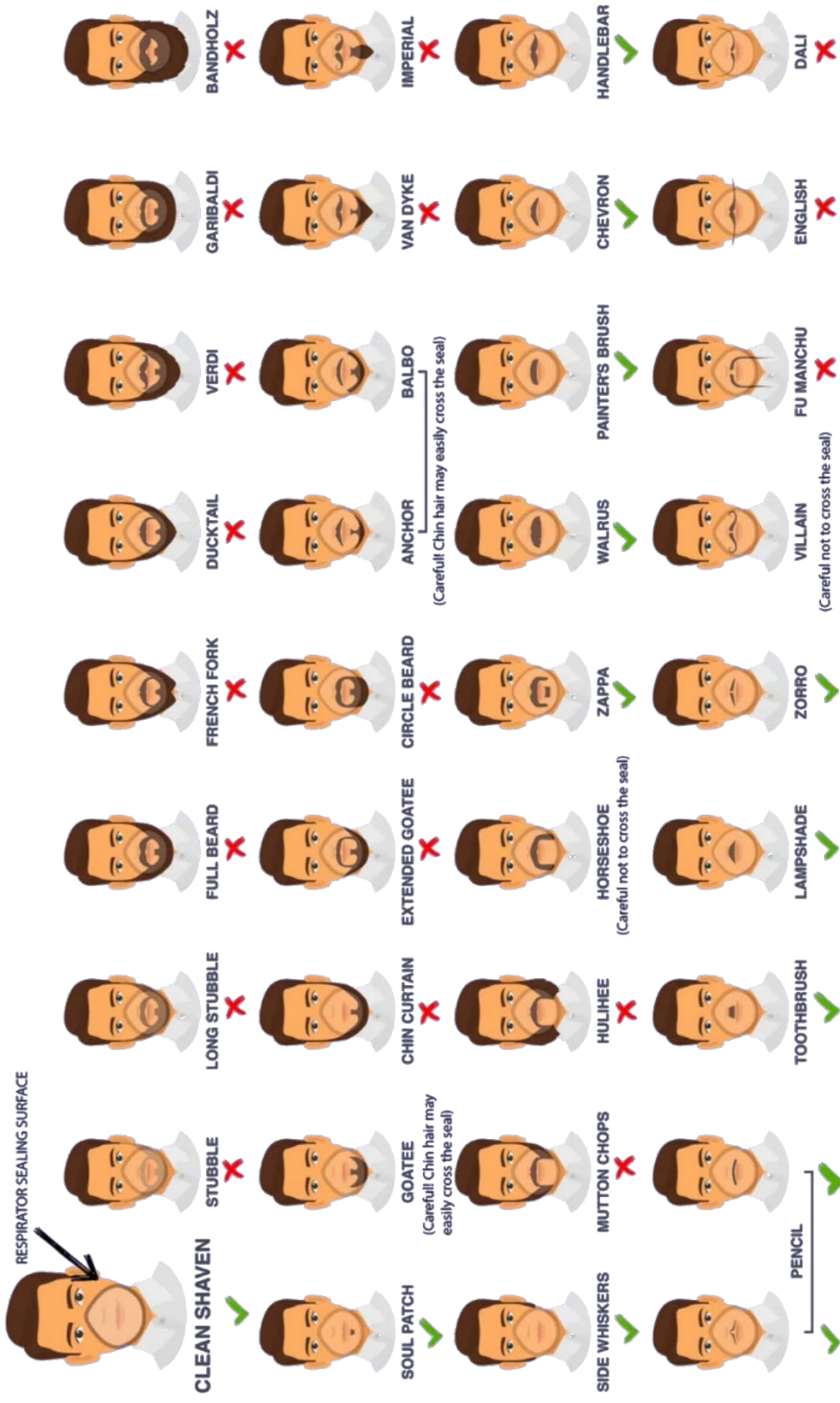


Read this during “Talking” exercise:

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/plh/oweb/owebdisp.cfm?documentId=table-standard&id=12716>
 Further Reading: NIOSH Respirator Trusted-Source Webpage
https://www.cdc.gov/niosh/nppl/topics/respirators/dep_part1/respsource3l1res.html



Centers for Disease Control
 and Prevention
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 Safety and Health



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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!