

Preventing spread of the virus through improved facemask fit using 'Fix the Mask' prototype

Most facemasks are loose fitting and leak around the nose and the chin and overall provide a very poor fit. Through the development of a rubber band prototype (V.1), followed by a DIY rubber mask brace (V.2), and the recent development of an essential mask brace (V.3), Fix the Mask provides a couple of approaches to improve facemask fit.

West Virginia University Safety and Health Extension performed a fit check using both the V.2 and V.3 braces. A fit factor of < 10 was generated when wearing the facemask without a brace. Fit factors > 100 were generated when wearing the facemask with the V.2 and V.3 brace. A fit factor > 200 was achieved with the V.3 essential brace.

Visit: <https://www.fixthemask.com> (click on "what is the mask?")

Source: West Virginia University Safety and Health Extension: Brandon Takacs

Fix the Mask Essential Brace V.3 – (1) front view; (2) side view; (3) fit check



Fix the Mask V.2 – (1) front view; (2) side view; (3) fit check

