

PD99



Main Features

- **Supreme Protection**
Intended for tight seal and maximum adaptation to facial contour, PD99 provides a Protection Factor of 100-800.
- **Easy Breathing**
With its specially designed pleats, the PD99 allows relative easy passage of air through the filtration matrix to reduce heat build-up and ease breathing.
- **Nose-Bridge Seal**
PD99 incorporates a patent-pending solution specifically designed to provide the best seal in the problematic area of the nose-bridge. Additional improvement of the seal is achieved with the unique strapping mechanism.
- **User-Friendly**
PD99 was developed in light of users' demands and was fine-tuned according to users' feedbacks.

PD99 - The Promising N-99 Respirator.

Recent decades have brought forward the biological threat. A crucial need exists for the protection of first responders against exposure to disease-causing agents. However, recent studies suggest that current facial respirators provide insufficient protection against airborne biological agents, partly due to inadequate adaptation of the mask to different facial features.

In an effort to overcome this problem, a joint U.S.-Israeli project was initiated for the development of a new design of disposable mask which would not only address user's requirements but would also be compatible with different facial features and provide the required seal.

The Result was PD-99.

The development process included anthropometric measurements, survey of potential users to determine the design specifications, a wide study of different raw materials, and fabrication of different prototypes. These initial designs underwent analytical testing (e.g. protection factor measurement) and functional testing in which they were evaluated by medical personnel.

The final selected design offers a comprehensive solution to the abovementioned problem. This design maintains desired features of currently available products, such as user-friendliness, alongside ensuring the protection of users from biological threats with a high protection factor. The new, patent-pending mask is ready to be incorporated into the industry and market.

