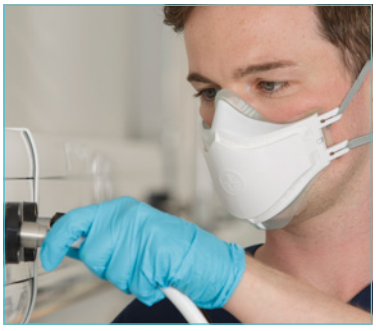
i-Pro™ medical mask



Airway Management ▪ Personal Protection

INTERSURGICAL®
COMPLETE RESPIRATORY SYSTEMS
BENELUX B.V.

Kwaliteit, innovatie en keuze

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www.intersurgical.be

i-Pro™ medical mask

Designed for clinicians, working in the clinical environment.

Intersurgical has developed, manufactured and supplied innovative respiratory and filtration solutions into the healthcare setting for over 30 years. This expertise has allowed us to design a medical mask specifically for clinical personnel. Utilising our proven mask and filtration technologies, the new i-Pro™ mask is designed to provide comfortable, high quality protection for clinicians working in the clinical environment.

Traditional personal protective masks were originally designed to be used in the industrial environment and are therefore not always suited for the population of healthcare workers, this has resulted in a number of reported issues.

The i-Pro™ mask has been designed with clinicians in mind. Using our breathing system filter media, with proven bacterial and viral efficiency in the clinical environment, and a soft, flexible TPE seal, featured in our range of respiratory products, the i-Pro™ mask combines a high level protection with a comfortable and effective fit.

Soft, flexible seal **Filter media** **Protective shield**

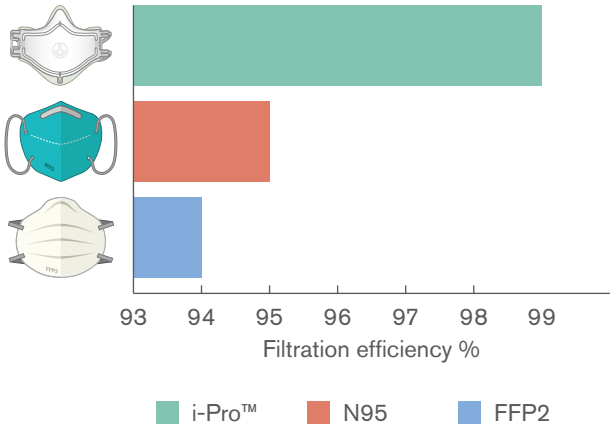
Dependent upon the type of mask, and where it is intended to be used, there are a variety of methods used to determine the overall effectiveness. The level of protection that a mask provides will be dictated by three key functional elements:

1. Filtration efficiency
2. Quality of the face fit
3. Comfortable protection

1. Filtration efficiency

Depending upon where the product is being tested, protective masks are subject to different testing methods. There are two main classifications of protective masks and these both require slightly different test methods and performance levels

- N95 standard requires >95% efficiency
- FFP2 standard requires >94% efficiency
- The i-Pro™ medical mask provides >99% efficiency



In addition, the filter media used in the i-Pro™ mask has been independently tested to provide an indication of effectiveness against a microbial challenge commonly found in the clinical environment and proven to provide: >99.999% efficiency against a bacterial and viral challenge.

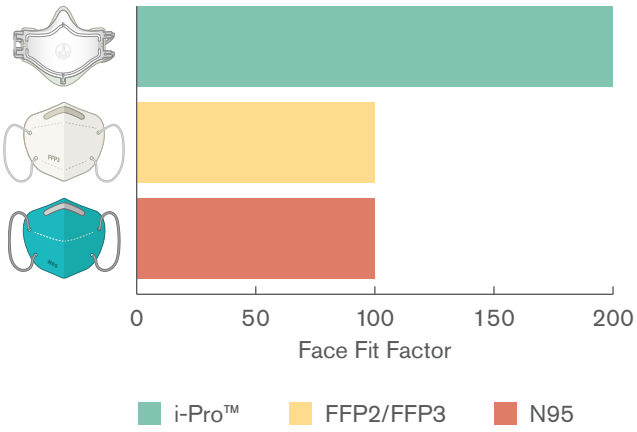
The challenge presented in the viral protocol allows us to provide a statement of effectiveness against a viral challenge of similar size to COVID-19. The filter media used in the i-Pro™ will provide >99.999% efficiency against a COVID-19 viral challenge.

ISO 23328-1 Medical filter test standard
To allow a correlation, between the filters routinely used in the Intensive Care and Operating Room, we have tested the i-Pro™ filter media in accordance with ISO 23328-1 and it is 99.98% against this challenge.

2. Quality of the face fit

The overall protection a mask can offer is also reliant upon the quality of fit to the wearer's face. If there are leaks or gaps in the seal, it will not fully protect the wearer.

The quality of this seal can be quantified as the face fit factor.



Usability studies with the i-Pro™ have shown that 74% of participants were able to achieve a fit factor of over 200 and 100% of participants achieved a minimum face fit factor of 116.

The standard for an FFP mask allows up to an 8% inward leakage for FFP2 masks and a 2% inward leakage for FFP3 masks. This means with an FFP2 mask, potentially 8% of the air breathed in will not be effectively filtered. Independent testing has shown the i-Pro™ to have <1% inward leakage, meaning >99% all of the air you breathe, will be filtered.

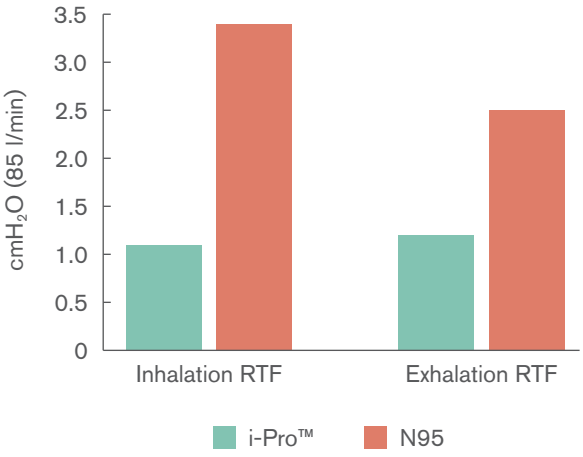
i-Pro™	FFP2	FFP3
		
Inward leakage <1%	Inward leakage <8%	Inward leakage <2%

The effective and comfortable seal created on the wearer's face means that the inward leakage of i-Pro™ is signifcantly lower than that required by either the FFP 2 or FFP 3 test standards improving overall protection.

3. Comfortable protection

The overall comfort of wearing a mask is also very important. Low resistance to flow characteristics has shown that it can be worn for the duration of a shift without increasing the work of breathing. The unique flexible seal also makes it comfortable to wear which helps with user compliance.

Low work of breathing helps improves compliance of the wearer.



The flexible soft seal creates a comfortable and effective seal to the wearer's face, minimising the risk of potential trauma associated with wearing PPE masks as reported by some clinicians during the pandemic.

There have been many reports of clinicians with facial sores as a result of wearing PPE masks. The i-Pro™ provides a high quality effective seal whilst being soft and comfortable on the wearer's face for the duration of use.

iPro's high quality seal limits air leakage and eliminates fogging of spectacles.

i-Pro™ medical mask

Choice
Available in two sizes to provide protection for all healthcare workers

Protective shield
Additional protection from droplets and aerosols

Flexible chin seal
Improves mask positioning and stability

Unique flexible seal
Ensures an effective and comfortable fit to the wearer's face

Proven protection
Bacterial and viral filtration proven in the clinical environment

Safe and secure
Four point fixation system provides safe and secure positioning

Code	Description	Box Qty.
2019111	i-Pro™ medical mask, medium/large	20
2019222	i-Pro™ medical mask, small/medium	20

Accessories
The i-Pro™ Vision protective visor is fully re-useable headwear designed for use in the clinical environment, providing optimum visibility, with a full range of movement.

Code	Description	Box Qty.
2019333	i-Pro™ Vision protective visor	1
2019334	i-Pro™ Vision replacement visors	20

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