

## Major Types of Respirators

Air-Purifying Respirators, which remove contaminants from the air



**Half mask/Dust mask**  
APF=10  
Needs to be fit tested



**Half mask (Elastomeric)**  
APF=10  
Needs to be fit tested



**Full face-piece (Elastomeric)**  
APF=50  
Needs to be fit tested



**Loose-Fitting Powered Air-Purifying Respirator (PAPR)**  
APF=25



**Hood Powered Air-Purifying Respirator (PAPR)**  
APF=25/1,000<sup>4</sup>

Assigned Protection Factors				
Type of Respirator <sup>1,2</sup>	Half Mask	Full Face-piece	Loose-Fitting Face-piece	Helmet/Hood
1. Air-Purifying Respirator	10 <sup>3</sup>	50	—	—
2. Powered Air-Purifying Respirator (PAPR)	50	1,000	25	25/1,000 <sup>4</sup>

Illustrations, table and notes are from OSHA's Respiratory Protection Standard: 29 CFR 1910.134

**Notes:**

- Employers may select respirators assigned for use in higher workplace concentrations of a hazardous substance for use at lower concentrations of that substance, or when required respirator use is independent of concentration.
- The assigned protection factors are only effective when the employer implements a continuing, effective, respirator programs required by this section (29 CFR 1910.134), including training, fit testing, maintenance, and use requirements.
- This APF category includes filtering face-pieces, and half masks with elastomeric face-pieces.
- The employer must have evidence provided by the respirator manufacturer that testing of these respirators demonstrates performance at a level protection of 1,000 or greater to receive an APF of 1,000. This level of performance can be best demonstrated by performing a WPF or SWPF study or equivalent testing. Absent such testing, all other PAPRs and SARs with helmets/hoods are to be treated as loose-fitting face-piece respirators, and receive an APF of 25.
- These APFs do not apply to respirators used solely for escape. For escape respirators used in association with specific substances covered by 29 CFR 1910 subpart Z, employers must refer to the appropriate substance-specific standards in that subpart. Escape respirators for other IDLH atmospheres are specified by 29 CFR 1910.134(d)(2)(ii).

# The Sentinel Clear™

PAPR SYSTEM



## Clear Solutions for Mission-Critical Protection

### ADVANCED PROTECTION

ILC Dover is a recognized leader in the design and delivery of high-performing softgood solutions for perilous environments. What we do for astronauts working and living in space we continue to do for pharmaceutical personnel and life science professionals.



**ILC Dover's Sentinel Clear™ Hood, combined with its XT blower, is a best-in-class powered air purifying respirator (PAPR) that delivers an Assigned Protection Factor (APF) of 1,000 for a full 12 hours of operation.** It's the clear choice for pharma in-house manufacturing and contract manufacturing organizations that must safeguard employees from airborne particles, cleaning solvents, and bioactive ingredients.

The Sentinel Clear™ system is the only PAPR that offers a clear hood engineered with advanced film technology for excellent visibility, comfort, and mission-critical protection.

### ENHANCED PRODUCTIVITY

The Sentinel Clear PAPR is a superior solution when compared to other PAPR masks and facepieces. It offers a full 320-degree field of view, allows the wearer to have facial hair and/or a head covering, and reduces feelings of claustrophobia.

### SMART SYSTEM DESIGN

Multiple filter and breathing tube options ensure that the assembly is easy to use and supports a range of applications.

### STRONG, LIGHTWEIGHT BLOWER

The XT blower, when paired with ILC Dover's lithium polymer battery, weighs just 2.2 pounds, yet delivers 8+ CFM airflow, exceeding NIOSH requirements. A nonincendive configuration is available for use in hazardous locations.

### IMPROVED ERGONOMICS

Our back harness and Quick-Loc™ belt options support a range of user needs and preferences while increasing comfort and usability.