



Novarlo

Respirator Filters Explained: N95, P100, and HEPA From Novarlo LLC

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Novarlo LLC announced the release of a new workplace respiratory protection guidance document designed to clarify the differences between common filter ratings used in occupational safety, including N95, P100, and HEPA classifications. The guidance outlines the N95 standard, where the "N" indicates non-oil resistance and the rating signifies filtration of at least 95 percent of airborne particles. These respirators are widely used in construction, woodworking, and other environments where non-oil-based particulates such as dust, pollen, and mold are present.

The P100 classification is described as a higher level of particulate filtration, with the "P" indicating oil-proof capability and the rating reflecting 99.97 percent filtration efficiency. This type of respirator is commonly used in industrial operations, heavy construction, and other settings involving hazardous airborne contaminants. HEPA filtration technology is also addressed in the release, noting that High-Efficiency Particulate Air systems are engineered to capture 99.97 percent of microscopic particles and are often used in controlled environments such as clean rooms and specialized industrial applications. Unlike disposable respirators, HEPA filters are typically integrated into powered air systems and advanced breathing equipment. Ergonomic fit and user comfort are emphasized alongside filtration performance, as proper sealing and wearability

significantly influence compliance in workplace environments. Industry experts note that even high-performing filters depend on correct usage to achieve intended protection levels.

Novarlo LLC, formed through the merger of X1 Safety and Metron Branding, stated that the guidance is part of its ongoing commitment to workplace safety education and equipment clarity across industrial sectors. The company continues to support protective apparel development informed by its longstanding focus on worker safety and operational reliability. The release is intended for distribution across safety managers, procurement teams, and training coordinators in manufacturing, construction, and environmental health sectors, where respiratory protection selection is a routine compliance requirement. It also aligns with broader occupational safety standards emphasizing hazard assessment, proper respirator selection, and ongoing workforce education regarding airborne risks and filtration technologies.

Industry stakeholders have increasingly highlighted the need for clearer communication around respirator performance categories as workplace environments become more complex and exposure risks more variable. The guidance release addresses this need by consolidating technical definitions into a single reference resource intended for practical use in operational decision-making and safety planning. Novarlo LLC indicated that the document will be available through its professional safety distribution channels and will serve as a reference point for organizations evaluating respiratory protection programs. The company expects the guidance to support improved consistency in equipment selection and reinforce established safety protocols across diverse working environments.

It also notes that continued advancements in filtration technology and evolving regulatory frameworks are expected to further shape how organizations approach respiratory protection over time, reinforcing the importance of accessible, standardized guidance materials for frontline decision-makers. Through its continued focus on worker safety innovation, Novarlo LLC maintains its role in supporting industries where respiratory hazards are present, reinforcing its commitment to practical safety solutions informed by operational experience and historical expertise within industrial protection sectors.

These ongoing developments highlight the importance of maintaining clear communication between manufacturers, safety professionals, and end users to ensure that protective equipment is selected appropriately for specific workplace conditions. As industries continue to evolve, the demand for reliable respiratory protection solutions is expected to remain a central component of occupational health and safety strategies across multiple sectors. This reinforces the need for consistent standards and ongoing education across all levels of workplace safety planning process.

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