



RESPIRATORY PROTECTION RESOURCES FOR **MINE** **WORKERS**



WHY IS RESPIRATORY PROTECTION IMPORTANT?

- Mines have a high risk of exposure to hazardous airborne contaminants such as dust, gases, and fumes
- Inhalation of these contaminants can cause respiratory diseases such as silicosis, coal workers' pneumoconiosis, and lung cancer
- Respiratory protection is essential to prevent these diseases and ensure the health and safety of mine workers



TYPES OF RESPIRATORY PROTECTION EQUIPMENT



DISPOSABLE RESPIRATORS:

Designed for single-use and offer basic protection against particulate contaminants



HALF-FACE RESPIRATORS:

Covers the nose and mouth and filters out particulate and gas contaminants



FULL-FACE RESPIRATORS:

Covers the entire face and provides more comprehensive protection against particulate and gas contaminants



POWERED AIR-PURIFYING RESPIRATORS (PAPRs):

Uses a battery-powered blower to filter the air and provide respiratory protection

PROPER USE AND MAINTENANCE OF RESPIRATORY PROTECTION EQUIPMENT

- Proper selection of respiratory protection equipment based on the contaminants present and the level of protection required
- Proper fit testing to ensure a tight seal and proper protection
- Regular inspection and maintenance of equipment to ensure proper functioning
- Proper storage and disposal of equipment to prevent contamination and damage



REGULATIONS AND GUIDELINES FOR RESPIRATORY PROTECTION IN MINING



Mine Safety and Health Administration (MSHA) regulates respiratory protection in mining in the US

MSHA requires a respiratory protection program, including proper equipment selection, fit testing, training, and maintenance

National Institute for Occupational Safety and Health (NIOSH) provides guidelines for respiratory protection in mining, including recommendations for equipment selection and maintenance

CONCLUSION

- Respiratory protection is crucial for mine workers to prevent respiratory diseases caused by exposure to airborne contaminants
- Different types of respiratory protection equipment are available, and proper selection, use, and maintenance are essential for effective protection
- Regulations and guidelines are in place to ensure the proper implementation of respiratory protection programs in mining.



THANK YOU

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