

CleanSpace®

R E S P I R A T O R S

PROTECTING STONEMASONS FROM SILICA DUST

The rapid rise in popularity of modern “engineered” or “artificial” stone countertops has created a potential deadly hazard for workers manufacturing, polishing and installing these products.

Engineered stone is made from processed quartz, a material containing silica levels as high as 90%, or twice the amount found in granite. When slabs are cut and finished to fit, large quantities of silica particles are released into the air. Without proper protection, workers inhale this fine crystalline dust, potentially leading to silicosis, chronic obstructive pulmonary disease (COPD), lung cancer or kidney disease and, alarmingly, young workers are being diagnosed.

RESPIRATORY PROTECTION FOR FABRICATORS OF ENGINEERED STONE:

Occupational Safety and Health Regulations recommend that when engineering and work practice controls do not limit silica dust exposure to the permissible exposure limit, employers must provide workers with respirators and have a respiratory protection program in place⁽¹⁾. Specific recommendations include:

- ✓ Ensure adequate ventilation
- ✓ Avoid dry cutting
- ✓ Use water suppression or dust extraction
- ✓ Use properly fitted approved respirators

ENGINEERED STONE - THE RISKS

- Global market for engineered stone rapidly grew 28% per annum from 2012 - 2017
- Silicosis, caused by respirable crystalline silica, is an incurable progressively disabling, and potentially fatal lung disease
- Types of silicosis: Chronic – 10+ years exposure; Accelerated – 5 - 10 years high exposure; Acute (fatal) - weeks to months very high exposure
- Increasing number of accelerated outbreaks of silicosis in workers
- Silica dust concentrations averaged over a nominal 30min period: 600 $\mu\text{g}/\text{m}^3$ (wet blade with local ventilation) & 44,000 $\mu\text{g}/\text{m}^3$ (dry blade)¹
- OSHA recommend restriction of exposure to crystalline silica of 100 $\mu\text{g}/\text{m}^3$ (maximum average airborne concentration of a crystalline silica when calculated over an eight-hour time weighted exposure)

1. Hazard Alert – Worker Exposure to Silica during Countertop Manufacturing, Finishing and Installation – OSHA, 2016.

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A REVOLUTION IN RESPIRATORY PROTECTION

CLEANSPACE RESPIRATORS FOR PROTECTION AGAINST CRYSTALLINE SILICA DUST

LIGHTWEIGHT (500g)

- Portable and easily transported in tool boxes and vehicles

COMPACT

- No belts, cables or hoses for easy movement in critical situations

COMFORT

- Cool air and no fogging

HIGH-LEVEL PROTECTION

- Powered air purifying respirator P3/TM3. Half and full face mask options. Be prepared for any level of silica dust

WATER TOLERANT (IP RATING 66)

- Suitable for use with water applications (CleanSpace Ultra)

EASY SET UP AND USE

- Donned in under 15 seconds; Simple assembly; One-button start

SMART BATTERY

- Long run time. Up to 8 hours of continuous use. Rapid re-charge time in under 2 hrs

AIR-SENSIT® TECHNOLOGY

- Breath-responsive airflow; Adjusts 100 times per second

CLEAR COMMUNICATION

- Transparent silicone mask; Quiet motor

ROBUST, REUSABLE SYSTEM

- Shockproof with 2 yr warranty

CleanSpace® is the world's lightest powered respirator: delivering high protection from harmful airborne substances like silica.

- ✓ CE Mark & AS/NZS1716 Approved
- ✓ ANSI Z87.1+ Impact Rated Protection
- ✓ Training tools and product specialist support available



RESPIRATOR & MASKS

PAF-0070	CleanSpace Ultra Power System (exc mask)
PAF-1010	CleanSpace™ Half Mask MEDIUM
PAF-0027	CleanSpace™ Half Mask LARGE
PAF-0033	CleanSpace™ Half Mask SMALL
PAF-1014	CleanSpace™ Full Face Mask MEDIUM / LARGE
PAF-1106	CleanSpace™ Full Face Mask SMALL

FILTERS & ADAPTOR

PAF-0035	CleanSpace Particulate Filter P3 Standard (pk 3)
PAF-0038	CleanSpace Filter Adaptor for large case filters
PAF-0037	CleanSpace™ Hi Capacity (HI CAP) Particulate Filter P3 (single)

ACCESSORIES

PAF-0057	CleanSpace™ Particulate Pre-Filter (Large Case Filters) (pk 20)
PAF-0058	CleanSpace™ Particulate Pre-Filter and Coverall (Standard Filter) (pk 20)
PAF-0049	CleanSpace™ Coverall (Standard and Large Case Filters) (pk 25)
PAF-0074	CleanSpace Cleaning & Storage Plug
PAF-1017	CleanSpace™ Full Face Mask Spectacle Kit
PAF-1018	CleanSpace™ Full Face Mask Tear off Visor Anti-Scratch Protectors (pk 10)
PAF-1024	CleanSpace Car Charger
PAF-1030	CleanSpace ELITE Head Harness for Half Mask (fabric)
PAF-0098	CleanSpace Docking Station (for 8 units)

Trial CleanSpace today, contact Customer Support to arrange a demonstration

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