

WARNING – SILICA DUST IS DANGEROUS TO INHALE

We at Redline Engineering refer to our abrasive blasting cabinets as “sand blasters.” This is done because the vast majority of shoppers know these products as sand blasters and as such, we must incorporate these key words into the title of our products in order to ensure our customers find our products when searching the internet. It’s important to know that using sand in a sand blaster produces silica dust, which, if inhaled, can cause Silicosis and lead to death through long term exposure. As such, Redline Engineering recommends only using sand blast media with an OSHA approved respirator to prevent Silicosis.

[Info below from Osha.gov/Publications/Silicosis.html](https://www.osha.gov/Publications/Silicosis.html)

Effects of Silicosis

- Lung cancer – Silica has been classified as a human lung carcinogen.
- Bronchitis/Chronic Obstructive Pulmonary Disorder.
- Tuberculosis – Silicosis makes an individual more susceptible to TB.
- Scleroderma – a disease affecting skin, blood vessels, joints and skeletal muscles.
- Possible renal disease.

Symptoms of Silicosis

- Shortness of breath; possible fever.
- Fatigue; loss of appetite.
- Chest pain; dry, nonproductive cough.
- Respiratory failure, which may eventually lead to death.

Sources of Exposure

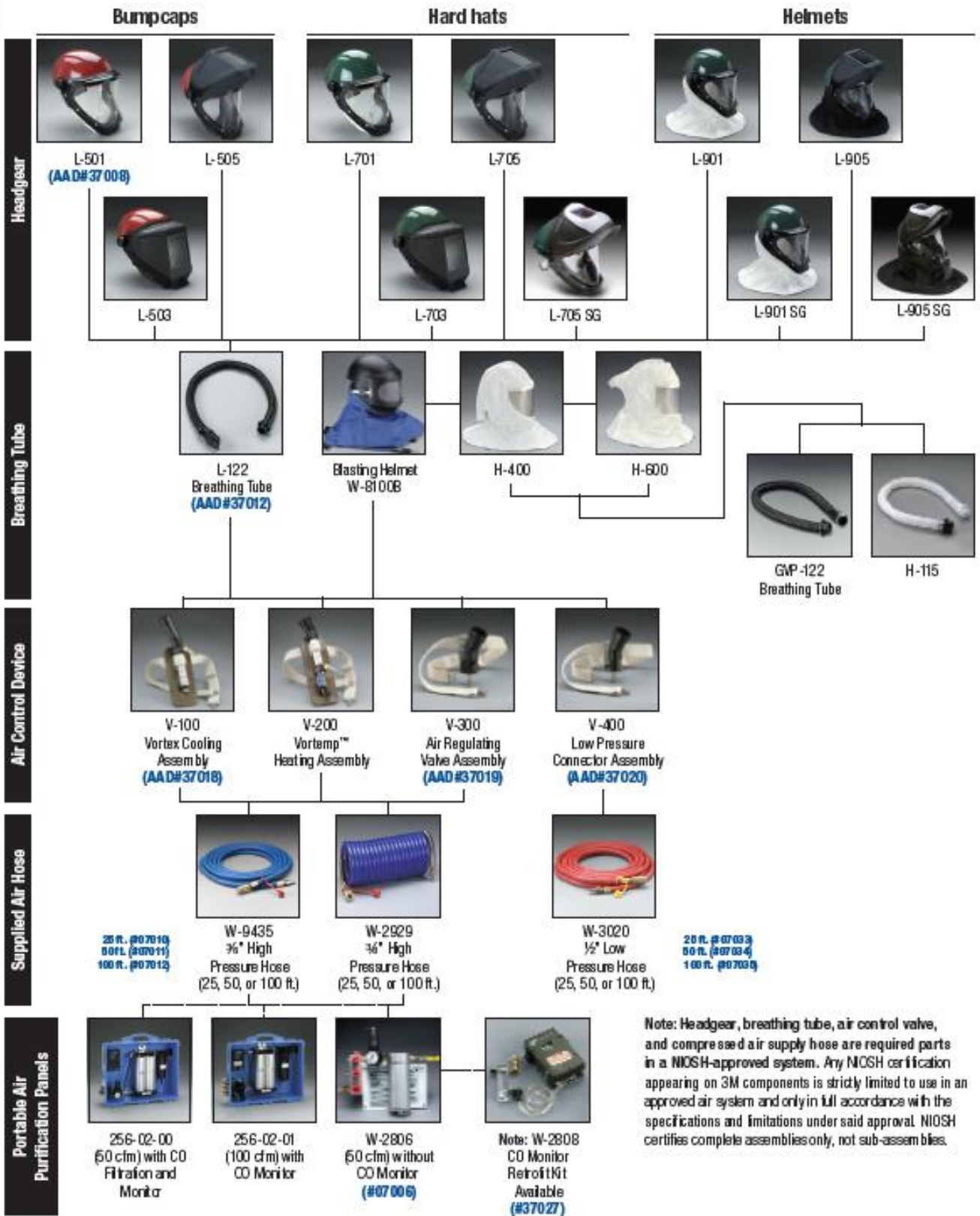
- Sandblasting for surface preparation.
- Crushing and drilling rock and concrete.
- Masonry and concrete work (e.g., building and road construction and repair).
- Mining/tunneling; demolition work.
- Cement and asphalt pavement manufacturing.

Preventing Silicosis

- Use all available engineering controls such as blasting cabinets and local exhaust ventilation. Avoid using compressed air for cleaning surfaces.
- Use water sprays, wet methods for cutting, chipping, drilling, sawing, grinding, etc.
- Substitute non-crystalline silica blasting material.
- Use respirators approved for protection against silica; if sandblasting, use abrasive blasting respirators.
- Do not eat, drink or smoke near crystalline silica dust.
- Wash hands and face before eating, drinking or smoking away from exposure area.

If you're located in the United States and fall under the scope of OSHA, the only respiratory protection allowed for sand blasting operators is a Type CE supplied air system. The 3M W-8100B Abrasive Blasting Helmet is the only 3M product meeting these requirements. The product matrix on the next page identifies necessary components to complete the W-8100B SA system.

3M™ Supplied Air* Respirators — Product Matrix



*It is the employer's responsibility to ensure that the compressed air used with any supplied air system meets the requirements for at least Grade-D breathing air per the Compressed Gas Association Commodity Specification G-7.1-1997 in the U.S. In Canada refer to CSA Standard Z180.1 table for the quality of compressed breathing air.

3m.com/OccSafety/WorkerSafety

⚠ WARNING! See warnings on inside back cover.

Before each use of the product, please inspect for any rips, damages, tears, etc.

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IMPORTANT: All 3M Safety Products in this catalog must be used in accordance with OSHA regulations and the *User Instructions*, warnings and limitations accompanying each product.