

COMPRESS AIR SOURCES FOR BLASTING

- 1910.94
a 6 The air from the regular compressed air line of the plant may be used for the abrasive blasting respirator if (i) a trap and carbon filter are installed and regularly maintained, to remove oil, water, scale and odor, (ii) a pressure reducing diaphragm or valve is installed to reduce the pressure down to requirements of the particular type of abrasive blasting respirator, and (iii) an automatic control is provided to either sound an alarm or shut down the compressor in case of overheating.
- 1910.134
d 2 ii The compressor for supply air shall be equipped with necessary safety and standby devices. A breathing air-type compressor shall be used. Compressors shall be constructed and situated so as to avoid entry of contaminated air into the system and suitable in-line air purifying sorbent beds and filter installed to further ensure breathing air quality. A receiver of sufficient capacity to enable the respirator wearer to escape from a contaminated atmosphere in event of compressor failure, and alarms to indicate compressor failure and overheating shall be installed in the system. If an oil-lubricated compressor is used, it shall have a high-temperature or carbon monoxide alarm, or both. If only a high-temperature alarm is used, the air from the specifications for grade "D" breathing air. As described in Compressed Gas Association commodity specifications G-7.1 - 1966.

OPERATOR'S BREATHING APPARATUS

- 1910.94
a 5 ii Abrasive blasting respirators (air-fed hoods) shall be worn by all abrasive blasting operators:
- When working inside of blast-cleaning rooms, or
 - When using silica sand in manual blasting operations where the nozzle and blast are not physically separated from the operator in an exhaust ventilated enclosure, or
 - Where concentrations of toxic dust dispersed by the abrasive blasting may exceed the limits set in 1910.1000 and the nozzle and blast are not physically separated from the operator in an exhaust ventilated enclosure.
- a 5 iii a Dust filter respirators may be used to protect the operator of outside abrasive blasting operations where non-silica abrasives are used on materials having low toxicity's.
- a 5 v Operators shall be equipped with heavy canvas or leather gloves and aprons or equivalent protection to protect them from the impact of abrasives.
- a 5 v b Equipment for protection of the eyes and face shall be supplied to the operator when the respirator design does not provide such protection and to any other personnel working in the vicinity of abrasive blasting operations. This equipment shall conform to the requirements of 1910.133.
- a 5 i Only respiratory protective equipment approved by The Mine Safety and Health Administration and The National Institute of Occupational Safety and Health shall be used for the protection of personnel against dusts produced during abrasive blasting operations.