

Airborne Contaminants and Their Corresponding Regulatory Level		
(see 29 CFR Subparts D and Z for specific requirements)		
Acetone	1,000 ppm	1926.55
Acetylene	E	1926.55
Ammonia	50 ppm	1926.55
Arsenic - inorganic	AL 5 µg/m ³	1926.1118
	PEL 10 µg/m ³	1926.1118
Asbestos	0.1 fibers/cm ³	1926.1101
Benzene	AL 0.5 µg/m ³	1926.1118
	PEL 1.0 µg/m ³	1926.1118
Beryllium	0.002 mg/m ³	1926.55
Cadmium	AL 2.5 µg/m ³	1926.1127
	PEL 5.0 µg/m ³	1926.1127
Carbon Monoxide	AL 35 ppm	Industry-accepted
	PEL 50 ppm	1926.55
Chromium Hexavalent (CrVI)	AL 2.5 µg/m ³	1926.1126
	PEL 5.0 µg/m ³	1926.55
Dust - Nuisance whichever is the smaller of total dust < 1% SiO ₂	50 mppcf - or 15 mg/m ³	1926.55
Hydrogen Sulfide	10 ppm	1926.62
Lead - inorganic	AL 30 µg/m ³	1926.62
	PEL 50 µg/m ³	1926.55
Mercury - all forms	0.1 mg/m ³	1926.55
Methane / Propane	E	1926.55
Methyl Ethyl Ketone (MEK)	200 ppm	1926.55
Portland Cement: total dust respirable fraction	15 mg/m ³	1926.55
	5 ppm	1926.55
Silica - Crystalline Quartz % of SiO ₂ in formula is as determined from airborne samples or other proven method	250	1926.55
	%SiO ₂ + 5 = X mp (of dust) pcf	
Toluene	200 ppm	1926.55
Xylene (o-, m-, p- isomers)	100 ppm	1926.55

All values are 8-hour time-weighted averages unless otherwise noted. AL = Action Level
 PEL = Permissible Exposure Limit ppm = parts per million mppcf = million parts per cubic
 foot µg/m³ = microgram per cubic meter of air E = Simple Asphyxiants (limiting factor is
 oxygen)

Grinding



All abrasive wheel bench and stand grinders shall be provided with safety guards that cover the spindle ends, nut and flange projections, and are strong enough to withstand the effects of a bursting wheel. 1926.303(b)(1) and (c)(1)

An adjustable work rest of rigid construction shall be used on floor and bench-mounted grinders, with the work rest kept adjusted to a clearance not to exceed 1/8-inch between the work rest and the surface of the wheel. 1926.303(c)(2)

All abrasive wheels shall be closely inspected and ring-tested before mounting to ensure that they are free from cracks or other defects. 1926.303(c)(7)

Portable abrasive wheel tools shall be provided with safety guards, except when the wheels are 2 inches or less, or the wheel is entirely inside the work. 1926.303(c)(3) and (4)

Hand Tools



Employers shall not issue or permit the use of unsafe hand tools, including tools that may be furnished by employees or employers. All hand tools must be properly maintained. 1926.300(a) and 1926.301(a)

Wrenches shall not be used when jaws are sprung to the point that slippage occurs.