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Threshold Limit Values For 1964



Adopted at the 26th Annual Meeting of the
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LAM021605

B003213

6113
18462

Substance	ppm*	Mg/M ³ **
† Yttrium	—	—
Zinc oxide fume.....	—	5
Zirconium compounds (as Zr)....	—	5

Radioactivity: For permissible concentrations of radio-isotopes in air, see U. S. Department of Commerce, National Bureau of Standards, Handbook 69, "Maximum Permissible Body Burdens and Maximum Permissible Concentrations of Radionuclides in Air and in Water for Occupational Exposure," June 5, 1959. Also, see U. S. Department of Commerce, National Bureau of Standards, Handbook 59, "Permissible Dose from External Sources of Ionizing Radiation," September 24, 1954, and addendum of April 15, 1958.

* Parts of vapor or gas per million parts of air by volume at 25°C and 760 mm. Hg pressure.

** Approximate milligrams of particulate per cubic meter of air.

A Numbers, See Appendix A

† 1964 Revision - see Tentative Values

MINERAL DUSTS

Substance	m. p. p. c. f.*
SILICA	
Crystalline	
Quartz, Threshold Limit calculated from the formula	250 **
Cristobalite " "	%SiO ₂ ± 5
Amorphous, including natural diatomaceous earth	20
SILICATES (less than 1% crystalline silica)	
Asbestos	5
Mica	20
Soapstone	20
Talc	20
Portland Cement	50

"Inert" or Nuisance Particulates 50 (or 15 mg/m³ whichever is the smaller)

Conversion factors
mppcf x 35.3 = million particles per cubic meter
= particles per c.c.

* Millions of particles per cubic foot of air, based on impinger samples counted by light-field technique.

** The percentage of crystalline silica in the formula is the amount determined from air-borne samples, except in those instances in which other methods have been shown to be applicable.

TENTATIVE VALUES

Substance	ppm*	Mg/M ³ **
†† Anisidine (o, p-isomers).....		0.5
†† Benzoyl peroxide.....		5
Calcium oxide		5
†† Carbaryl (Sevin) (R)		5
Copper Fume		0.1
Dusts & Mists		1.0
†† Cotton Dust (raw)		1
†† Cyclopentadiene	75	200
Demeton (Systox) (R)		0.1
†† 1, 3-Dichloro-5, 5-dimethyl hydantoin		0.2
†† Dimethyl 1, 2-dibromo-2, 2-dichloroethyl phosphate, (Dibrom) (R)		3
†† Dimethylamine	10	18
+ Dimethylformamide - Skin	10	30
†† Di sec. octyl phthalate (Di-2-ethylhexyl-phthalate)	—	5
Epichlorhydrin	5	19
Ethanolamine	3	6
Graphite	—	15mppcf
Hafnium	—	0.5
†† Hexachloroethane - Skin.....	1	9.7
+ Hydrogen Sulfide	10	15
†† L. P. G. (Low pressure gas) (Liquid petroleum gas)	1,000	—
†† Maleic anhydride	—	8
†† Methane.....	1,000	—
†† Methyl acetylene-propadiene mixture, (MAPP)	1,000	—
Methylamine	25	31
+ Methyl mercaptan.....	10	20
Methyl methacrylate	100	410
C Methylene bis phenylisocyanate	0.02	0.2
Mineral wool, fibrous glass.....	—	2
†† Monomethyl hydrazine - Skin.....	0.2	0.35
†† Morpholine - Skin.....	20	70

* Parts of vapor or gas per million parts of air by volume at 25°C and 760 mm. Hg pressure.

** Approximate milligrams of particulate per cubic meter of air.

† 1964 Revision.

†† 1964 Additions.

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